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ПРЕДИСЛОВИЕ

Основная цель Грамматического практикума - сформировать у обучающихся умение понимать и переводить оригинальные англоязычные тексты по специальности с опорой на знание грамматических структур, характерных для медицинской научной литературы на английском языке.

Издание адресовано прежде всего студентам медицинских вузов, изучающим базовый двухгодичный курс английского языка. Пособие является частью учебнометодического комплекса, включающего: 1) базовый учебник для медицинских вузов «Английский язык» (М.: ГЭОТАР-Медиа, 2005; 2009), 2) Грамматический практикум для медиков (М.: ГЭОТАР-Медиа, 2009), 3) Практикум по устному профессиональному общению для медиков «International Scientific & Medical Conference» (Книга для студента, Книга для преподавателя, СD. - М.: Билингва, 2005), 4) Англо-русский медицинский словарь (М.: МИА, 2008). Учебно-методический комплекс создан под руководством И.Ю. Марковиной коллективом кафедры иностранных языков Московской медицинской академии им. И.М. Сеченова.

Грамматический практикум может использоваться при обучении аспирантов и соискателей в курсе подготовки к сдаче кандидатского экзамена по английскому языку. Пособие заинтересует также широкий круг специалистов-медиков, желающих свободно владеть навыками работы с англоязычной научной литературой, так как грамматический комментарий и специальные задания-инструкции к упражнениям позволяют использовать его и для самостоятельных занятий.

Пособие состоит из трех книг: «Употребление личных форм глагола в научном тексте», «Употребление неличных форм глагола в научном тексте», «Синтаксические особенности научного текста. Трудности перевода некоторых слов и конструкций». Каждая книга содержит несколько тематически организованных разделов, включающих упражнения (в том числе обзорного характера) и тексты для тренировочного и контрольного перевода.

Все грамматические темы представлены в практикуме так, чтобы обучающиеся смогли усвоить принципиальный «алгоритм» работы с иноязычным текстом, обеспечивающий правильное понимание и грамотный перевод оригинального материала на русский язык. С этой целью комментарий к темам приближен по форме к инструкции, в которой содержатся, во-первых, краткие сведения о грамматическом явлении, вовторых, характеристика его формальных признаков в сочетании с иллюстрациями для обучения распознаванию данной конструкции в предложении (рубрика «Пример»); в-третьих, рекомендации по переводу на русский язык (рубрика «Например»). По аналогичному принципу построены задания-инструкции к упражнениям:

• краткие сведения о грамматическом явлении (если это необходимо);

- задание на поиск данного явления в английском предложении по формальным признакам (в качестве подготовки к переводу);
- сведения об англо-русских соответствиях применительно к изучаемой конструкции и рекомендации по ее переводу;
- задание на перевод.

Каждый раздел имеет одинаковую структуру: грамматический комментарий, упражнения (на перевод отдельных предложений), мини-тексты для тренировоч-

ного перевода, тексты для контрольного перевода (расположены в конце книги). Помещенный также в конце пособия «Индекс грамматических тем» предназначен для быстрого поиска упражнений, необходимых для отработки конкретного грамматического явления.

Аутентичные материалы, использованные в практикуме, отобраны таким образом, чтобы тематически представить широкий спектр научных областей, которые могут оказаться в сфере профессиональных интересов специалистамедика: анатомия, биология, физиология, терапия, хирургия и др. В пособии сохранены особенности правописания и пунктуации оригинальных источников, что также способствует формированию представления о реально функционирующих в сфере письменного профессионального общения текстах.

Как работать с Грамматическим практикумом

Первая книга практикума включает четыре раздела: «Глагол в активном (действительном) залоге», «Глагол в пассивном (страдательном) залоге», «Модальные глаголы», «Глагол в повелительном наклонении (предложения без подлежащего)».

По форме пособие представляет собой рабочую тетрадь, которая предназначена как для изучения грамматических тем, так и для выполнения заданий по письменному переводу с английского языка на русский. Для этого после каждого предложения или мини-текста оставлено свободное место. Предполагается, что перевод может выполняться студентами и самостоятельно в качестве домашнего задания, и в аудитории. Варианты перевода обсуждаются и редактируются в аудитории с участием преподавателя. На каждой странице отведено также специально обозначенное место для заметок, где рекомендуем записывать термины, перевод отдельных словосочетаний, служебные и другие частотные слова, которые целесообразно запомнить. Упражнения в каждом разделе расположены по принципу от простого к сложному; по аналогичному принципу расположены предложения в каждом упражнении. Темы или упражнения повышенной трудности отмечены «звездочкой» (*) и

предназначены для углубленного изучения грамматических особенностей медицинского текста.

Все разделы заканчиваются заданиями на тренировочный перевод минитекстов. Цель этого этапа - переход обучающихся на следующую ступень формирования умения понимать и переводить специальную медицинскую литературу. В заданиях к тренировочному переводу предлагается алгоритм работы уже не с отдельным предложением, а с мини-текстом. «Шаги», предшествующие собственно переводу, связаны друг с другом и логически подготавливают последующее действие. Очень важно выполнять предпереводческие действия в указанной последовательности:

- во-первых, опираясь на термины, интернациональную лексику, знакомые слова (для примера они отмечены в первых разделах пособия), определить общую тематику мини-текста;
- во-вторых, проанализировать структуру каждого предложения и обозначить его

ядро;

- в-третьих, на основе представления о тематике текста и понимания структуры предложений найти в словаре значения незнакомых слов (для их записи отведено специальное место);
- в-четвертых, пользуясь сведениями, полученными на первом, втором и третьем этапах, выполнить черновой вариант перевода.

После обсуждения в аудитории и редактирования записывается окончательный перевод текста. Тренировочный перевод может выполняться как в классе, так и в качестве домашней самостоятельной работы с последующей проверкой на занятиях.

По завершении изучения каждой большой грамматической темы рекомендуется провести контрольное занятие. Итоговая работа выполняется студентами самостоятельно на специальных бланках с текстами для контрольного перевода, помещенных в заключительной части Рабочей тетради, и сдается преподавателю для проверки.

В заключение еще раз подчеркнем: особенностью данного учебного пособия являются включенные в каждое упражнение задания-инструкции, которые рекомендуем внимательно читать перед началом работы над переводом. Задания-инструкции способствуют формированию умения анализировать формальную структуру английского предложения в качестве обязательного этапа, предваряющего перевод. Важно также работать над переводом, как отдельных предложений, так и мини-текстов, в той последовательности, которая предлагается в задании-инструкции. Это позволит усвоить своеобразный «алгоритм» действий, обеспечивающий правильное понимание и адекватный перевод научного текста.

Практикум апробирован на занятиях со студентами 1-го и 2-го курсов, в группах аспирантов и соискателей в Московской медицинской академии им. И.М. Сеченова, а также в некоторых других медицинских вузах России. Авторы

УСЛОВНЫЕ СОКРАЩЕНИЯ И ОБОЗНАЧЕНИЯ

adj - прилагательное n - существительное v - глагол

NV - ядро предложения (подлежащее и сказуемое)

Ns - подлежащее (существительное) во множественном числе

V - основная форма глагола

Vs - глагол-сказуемое в 3-м лице, единственном числе настоящего времени

Ved - глагол-сказуемое в прошедшем времени для правильных глаголов

V2 - прошедшее время

V3 - 3-я форма глагола (причастие II)

Ving - 4-я форма глагола (причастие I)

РАЗДЕЛ 1 ГЛАГОЛ В АКТИВНОМ (ДЕЙСТВИТЕЛЬНОМ) ЗАЛОГЕ

1.1. Общие сведения

Понимание английского предложения зависит от правильного определения его ядра (подлежащего и сказуемого), что важно для сохранения логического центра высказывания при переводе на русский язык.

Подлежащее обозначает либо субъект (исполнителя), либо объект действия. Если подлежащее обозначает исполнителя действия, то глагол-сказуемое имеет форму активного залога.

Сказуемое обозначает действие, свойство, состояние подлежащего и всегда выражается личной формой глагола. По структуре сказуемые делятся на простые, составные именные и составные глагольные.

1.2. Глагол to be в составном именном сказуемом

Составное именное сказуемое включает: 1) глагол-связку *to be* в личной форме (т.е. согласующуюся с подлежащим в лице и числе) и 2) именную часть (например, существительное или прилагательное). Форма глагола *to be* в составном именном сказуемом также указывает на время действия - настоящее, прошедшее или будущее.

Пример:

to be + n

The backbone is a column of 26 bones.

to be + adj

Biochemical systems are dynamic.

На русский

язык глагол to be в структуре составного именного сказуемого может переводиться глаголами являться, быть, представлять собой или не переводиться (вместо глагола-связки ставят тире). Сочетание глагола to be с прилагательным нередко передается кратким прилагательным.

Например:

1. The backbone is a column of 26 bones.

Позвоночник <u>представляет собой столб</u> из 26 костей.

- 2. The bones of a child at birth <u>are soft</u>. Кости новорожденного ребенка <u>являются мягкими</u>.
- 3. Genes are the factors responsible for inheritance.

Гены — <u>(это) факторы</u>, отвечающие за наследственность.

 Genes <u>are responsible</u> for all hereditary characteristics.

Гены <u>ответственны</u> за все наследственные признаки.

Упражнение 1

I.

А Найдите в каждом предложении составное именное сказуемое, которое включает глагол *to be*(согласующийся в лице и числе с подлежащим) и именную часть: существительное или прилагательное.

Б Переведите предложения. 1. A cell is the unit of life.

- 2. DNA is the basis for all life on Earth.
- 3. Muscles are the body's movers.
- 4. The elbow, hip, and wrist are movable joints.
- 5. The bones of a child at birth are soft and incomplete.
- 6. The nose with its two nostrils is the organ of smell.
- 7. The spinal cord is a downward extension of the brain.
- 8. The extinction of species is an irreversible process.
- 9. The major threat from global warming is its unpredictability.
- 10. The microbial world is extremely diverse.
- 11. A stable balance between acids and bases in the body is essential to life.
- 12. The lymphocytes are an essential part of the body's immune system.
- 13. Vitamins are essential nutritional factors.
- 14. Marine microorganisms are the food of a large number of marine animals.
- 15. Vegetable oils are abundant sources of vitamin E.
- 16. The first living things on the earth were probably bacteria and other primitive organisms.

- 17. The microscope was a new tool of discovery in the 17th century.
- 18. Ancient people were familiar with the biological activities of many substances.

А Следует учитывать, что правила перевода с английского языка на русский (см. п. 1.2) являются общими рекомендациями. Нередко контекст и объективные различия между языками требуют формулирования содержания предложения в соответствии со спецификой подъязыка медицины и нормами русского языка.

Например:

The skin is new every month.

Кожа обновляется каждый месяц.

Переведите предложения, в которых контекст требует особого варианта перевода.

- 1. Biochemical systems are dynamic.
- 2. The surface of the skin is dead.
- 3. Human health is dependent on a good environment.
- 4. The pupils are large in darkness and small in bright light.
- 5. The stomach is stretchable and expandable.
- 6. No vaccine is currently available for malaria.

Упражнение 2

Используя фрагменты предложений из трех колонок, составьте определения (дефиниции) медицинских терминов, при этом форма глагола *to be* должна быть согласована с числом существительного-подлежащего.

Пример:

The ankle is the joint of the leg.

The lungs are the two organs inside the chest.

R

приведенной ниже таблице ответов номерами 1-18 обозначена первая часть дефиниций (термин) (графа I). Проставьте во второй графе таблицы (II) соответствующую личную форму глагола-связки *to be*, а в третьей графе (III) - букву, которой обозначена заключительная часть дефиниции.

Таблица ответов

I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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А В следующих предложениях составное именное сказуемое выражено глаголомсвязкой *to be* и прилагательным в сравнительной степени (adj+er, more/less + adj) или в превосходной степени (adj+est, most/least + adj).

Пример:

The epidermis is thinner than the dermis.

A ventricle is more muscular than an atrium.

The skin on the foot's sole is the thickest in the body.

Б Найдите

составное именное сказуемое (прилагательное в структуре сказуемого может иметь уточняющее наречие), определите степень сравнения прилагательного и переведите предложения.

- 1. The epidermis is thinner than the dermis.
- 2. Veins are less muscular than arteries.
- 3. A ventricle is more muscular than an atrium.
- 4. The male is generally more muscular than the female.

- 5. The dermis is much thicker than the epidermis.
- 6. The skin on the foot's sole is the thickest in the body.
- 7. The right renal artery is longer and a little lower than the left.
- 8. Metabolism is more active in the young than in the adult.
- 9. Ice is about one tenth less dense than water.
- 10. Inspiration is slightly shorter than expiration.
- 11. The right lung is slightly wider, shorter, and taller than the left.
- 12. The white cells are usually larger than the red cells.
- 13. Some drugs are much more dangerous than others.
- 14. Veins are much more variable in location and distribution.
- 15. Viruses are structurally much simpler than bacteria.
- 16. The facial bones are smaller and more complex than the cranial bones.
- 17. Of the inorganic compounds of living systems, water is without doubt the most abundant and important.
- 18. The two ventricles are much more muscular than the left atrium and the right atrium.

А В следующих предложениях найдите прилагательные в превосходной степени (adj+est, most/least+adj), которые выполняют функцию определения существительного в структуре составного именного сказуемого.

Пример:

The liver is the largest internal organ.

Bacteria are the most abundant organisms on the Earth.

Б Переведите предложения.

- 1. The skin is the largest organ of the body.
- 2. The cell is the smallest biological unit.
- 3. Sight is our most dominant sense.
- 4. Proteins are the most important builders in the body.
- 5. Malignant melanoma is the worst of the three types.
- 6. The knee is the largest and most complex joint in the body.
- 7. The stomach is the widest and most elastic part of the alimentary canal.
- 8. The nature of the pain is the best guide to the diagnosis.
- 9. Aristotle (384-322 BC) was one of the best naturalists of all times.
- 10. For the early biologists, the physical similarities between organisms were the most important feature.

- 11. Physicians in Ancient Egypt were undoubtedly the best doctors of the day.
- 12. The liver is the largest gland in the human body and one of the most complex of all human organs.
- 1.3. Глагол to be с формальным подлежащим there (конструкция there is/there are)

В конструкции *there* + *be* формальное (т.е. непереводимое) подлежащее *there* вводит реальное (т. е. смысловое) подлежащее, от которого зависит форма глагола *to be* (*is* - ед. ч. наст. вр.; *was* - ед. ч. прошед. вр.; *are* - мн. ч. наст. вр.; *were* - мн. ч. прошед. вр.).

Пример:

There are many kinds of matter.

There is a considerable amount of elastic tissue in the arterial wall.

На русский

язык конструкция *there* + *be* обычно переводится глаголами *существует*, *имеется*, *содержится*. Если в предложении есть обстоятельство, перевод рекомендуется начинать с этого обстоятельства.

Например:

1. There are many kinds of matter.

Существует много видов материи.

There is a considerable amount of elastic tissue in the arterial wall.
 В стенках артерий находится большое количество эластической ткани.

Упражнение 5

А Найдите конструкцию there + be и реальное подлежащее каждого предложения.

Б Переведите предложения.

- 1. There are more than 1 trillion molecules in a cell.
- 2. There are about 100,000 genes in a human body.
- 3. In the plasma, there is a soluble protein, fibrinogen.
- 4. There are at least 2,000 species of bacteria.
- 5. In the colon there are large numbers of bacteria.
- 6. At the end of the esophagus there is a muscular valve, or sphincter.
- 7. There are many different kinds of white blood cells.
- 8. Without oxygen there is no life.
- 9. There are many types and many causes of nephritis.
- 10. There are over 50 billion cells in every adult human being.

- 11. There is no water on the surface of Mars today.
- 12. There is a constant passage of material through the membrane of the cell.
- 13. There are significant differences between arterial and venous blood.
- 14. There is a difference in the thickness of the walls of the right and left ventricles.
- 15. There are more veins than arteries in the body, but they are less muscular than arteries.
- 16. There is one kidney on each side of the spinal column.
- 17. Under the epithelial lining, there are various amounts of lymphoid tissue.
- 18. There is always a small quantity of gastric juice present in the stomach.
- 19. In a stressful situation, there is an increase in the secretion of hormones.
- 20. There are more nerve cells in the digestive system than in the peripheral nervous system.
- 21. Every day of our lives there is a constant battle between our bodies and a multitude of microbes.
- 22. There was a lot of important research last year.
- 23. During the Middle Ages there were major epidemics of plague.
- 24. For centuries there was little thorough assessment of medical treatments.
- 25. In the 19th century there were several theories about the causes of sickness.
- 1.4. Глагол в настоящем простом (неопределенном) времени

В английском языке существует несколько форм настоящего времени глагола. Сказуемые, выраженные формой глагола в настоящем простом (неопределенном) времени, обозначают обычные, регулярные действияили сообщают факты.

При поиске подлежащего и сказуемого (т.е. ядра), что необходимо для правильного понимания английского предложения, следует опираться на порядок слов (в утвердительном предложении подлежащее предшествует сказуемому), а также на формальные признаки глагола:

- глагол-сказуемое в настоящем простом времени согласуется с подлежащим в лице и числе;
- глагольное окончание -s/-es указывает на подлежащее, выраженное существительным в 3-м лице единственного числа;
- отсутствие окончания у глагола указывает на множественное число подлежащего, которое имеет окончание-s/-es или особую форму;
- отсутствие окончания у глагола также может указывать на 1-е или 2-е лицо подлежащего в единственном числе.

Пример:

N V

A skeletal muscle contracts only under stimulation.

 \mathbf{v}

Muscles contract and relax.

Упражнение 6

А Опираясь на приведенные выше формулы, иллюстрирующие грамматическое согласование подлежащего (в единственном или множественном числе) и сказуемого в соответствующем числе (в настоящем времени), найдите и подчеркните ядро в следующих предложениях.

Б Переведите предложения.

- 1. The liver regulates the concentration of glucose in the blood.
- 2. The kidneys regulate the amount of water in the blood.
- 3. Blood reflects changes in the activities of organs of the body.
- 4. The action of sunlight on the skin changes certain substances in the body into vitamin D.
- 5. Individual nutritional requirements vary.
- 6. Skin varies in thickness over the surface of the body.
- 7. Feet bear the body's weight.
- 8. Skin becomes drier with the years.
- 9. The skin totally renews itself every month.
- 10. Mineral salts give bone hardness.
- 11. The dermis gradually thins after the age of 25.
- 12. Epithelial tissues line hollow structures.
- 13. A serous membrane lines the pericardium, the sac around the heart.
- 14. The internal ear houses the organs essential for hearing and equilibrium.
- 15. The skull houses and protects the delicate brain, and the main sensory organs.
- 16. Identical twins share all their genes; fraternal twins share only half.
- 17. Women have a better sense of smell than men.

- 18. The right hemisphere of the brain processes visual information.
- 19. Arteries snake out through the whole body.
- 20. In bright light the pupil contracts and does not let much light through.
- 21. Lack of sufficient insulin results in diabetes.
- 22. Disturbances of the acid-base balance result in acidosis or alkalosis.
- 23. The complex organization of the brain begins before birth, continues in childhood and is structurally mature by late adolescence.
- 24. In old people, bones contain less calcium and break more easily.
- 25. In certain primitive organisms, maleness and femaleness do not occur.
- 26. The smaller bronchioles have no cartilage; they are just muscular tubes.
- 27. The normal frequency of respiration of adults ranges from 16 to 20 per minute at rest.
- 28. Bones range in size from the smallest bone, the stapes in the middle ear, to the longest bone in the body, the femur, or thighbone.
- 29. Blood contains fewer white cells than red cells, but the white cells are usually larger than the red cells.
- 30. A benign neoplasm does not metastasize to distant sites.

А В зависимости от формы существительного-подлежащего (единственного или множественного числа) выберите правильную форму глаголасказуемого.

Б Переведите предложения.

- 1. The synthesis of proteins (occur/occurs) at numerous ribosomes within the cell.
- 2. Low levels of sugar in the blood (*interfere/interferes*) with the function of many organ systems.
- 3. The subatomic particles of an atom (*carry/carries*) a positive or a negative charge, or no charge.
- 4. Most smooth muscles (*act/acts*) automatically under control of the nervous system.
- 5. The pulmonary function of the lungs during pneumonia (*change/changes*) in different stages of the disease.
- 6. The chemical reactions of metabolism (occur/occurs) in sequences.
- 7. All of the activities of a living organism (use/uses) energy.
- 8. Humans (share/shares) the planet with many other living species.
- 9. Movement of fluids (wash/washes) the surfaces of various tissues of the body.

- 10. Disturbances in the function of the pancreas (*produce/produces*) digestive disorders.
- 11. Nuclear membrane (form/forms) the boundary of the nucleus.
- 12. The electrical events throughout the heart (*initiate/initiates*) and (*regulate/regulates*) contraction.
- 13. Most drugs (exert/exerts) most of their effects on a specific organ or system.
- 14. Millions of hair (cover/covers) most parts of the body.
- 15. The complex network of small capillaries (*supply/supplies*) blood to all cells in the body.
- 16. The formation and destruction of red blood cells (*take place/takes place*) continuously.

А Найдите и подчеркните ядро в следующих предложениях, в которых подлежащие выражены существительными, образующими форму множественного числа по правилам латинского или греческого языков (форму числа существительного можно определить по форме глаголасказуемого).

Пример:

- The bacillus is a bacterium of a certain form.
 Bacilli are responsible for many serious diseases.
- Each <u>vertebra consists</u> of two main parts: the body and the vertebral arch.
 The five lumbar <u>vertebrae lie</u> in the lowest part of the back.
- Б Переведите предложения. 1. Bacteria are vital.
- 2. Bacteria cause disease.
- 3. This bacterium is very sensitive to the lack of water.
- 4. Each nucleus contains one or more nucleoli.
- 5. Atomic nuclei contain a mixture of protons and neutrons.
- 6. Each alveolus is a tiny little pocket of air.
- 7. The pulmonary alveoli contain networks of extremely small vessels.
- 8. Each atrium opens into the ventricle through a valve.
- 9. The atria are the upper chambers of the heart.
- 10. Bronchi branch into smaller and smaller tubes.
- 11. Each bronchus divides into bronchial tubes.
- 12. A cilium is a fine, thread-like hair from the surface of a cell.
- 13. Cilia line the upper airways and protect against infection.
- 14. The alga is a simple plant without root, stem or leaves.
- 15. Algae range in size from single cells to plants many meters in length.

- 16. A mitochondrion is an important cytoplasmic organelle.
- 17. Mitochondria generate energy for the cell's activities.
- 18. The analysis involves several steps.
- 19. Chemical analyses of various substances in the blood are invaluable aid in the prevention of disease.
- 20. Amoebae are the type of unicellular animal.
- 21. Under a microscope ameba appears as a shapeless bit of jelly with one or more spots (the nuclei) inside it.
- 22. The glomerulus is an integral part of the nephron, the basic unit of the kidney.
- 23. The glomeruli contain receptors for a number of hormones.
- 24. Pili are short hair-like projections of certain bacteria.
- 25. A pilus is one of the minute filamentous appendages of certain bacteria.
- 26. The vertebrae form a column of bones in the spine.
- 27. Numerous intestinal villi line the small intestine.
- 28. Sensory stimuli follow neural paths from the sensory organ to specific areas in the brain.

А Выберите соответствующую форму существительного-подлежащего, определив его число по форме сказуемого.

Б Переведите предложения.

- 1. (Bacterium/Bacteria) show a number of different shapes and forms.
- 2. (Bacterium/Bacteria) have far fewer genes than animals and plants.
- 3. The (nucleus/nuclei) of radioactive atoms emit alpha or beta rays.
- 4. Each (villus/villi) has a network of capillaries.
- 5. Each bacterial (*flagellum/flagella*) consists of a single tube-like filament.
- 6. The (pneumococcus/pneumococci) has its special effect on the lungs.
- 7. The seven cervical (*vertebra/vertebrae*) are the smallest in the vertebral column.
- 8. Small (*embolus/emboli*) plug pulmonary arteries.

- 9. Like the streptococci, some (staphylococcus/staphylococci) secrete enzymes and toxins.
- 10. (Reticulum/Reticula) is a small network of tubules, vesicles, or sacs in cells.
- 11. (Paralysis/Paralyses) results from damage to parts of the nervous system.

А Поставьте глаголы, данные в скобках, в правильную форму. Для этого

определите, в каком числе (ед употребляется существительн	цинственном или множественном) ное-подлежащее.
Б Переведите предложения.	
1. Bacteriaorganic	_vitally important in the decomposition of all
material. (to be)	
2. Some bacteria	toxic proteins. (to secrete)
3. The staphylococci(to be)	responsible for many serious infections
4. The cilia	a series of hollow cylinders, microtubules, and
with upward	d wave-like motion. (to consist of, to move)
5. Each bronchus	its lung. (to enter)
6. The bronchi	into smaller tubes,
bronchioles. (to divide)	
7. Alveoli	only of a thin layer of
epithelial cells. (to consist)	
8. A mitochondrion	an interior membrane
and an outer membrane. (to have	ve)
9. Mitochondria	_ in shape and size.
(to vary)	
10. Bursaebe)	_ fibrous sacs in the elbow, knee, and shoulder. (to
11. Every second species of verfish. (to be)	rtebrate on the planet a bony
12. The atria in the heart	blood from veins. (to receive)
13. Like the bacteria, the fungi	extremely diverse. (to be)
14. Some fungi	spores. (to <i>produce</i>)
15. A flagellum	a long, mobile appendage at the
surface of a cell (to be)	

16. Streptococci	in chains. (to grow)
17. These criteriaequa	lly appropriate in
evaluation of resources. (to be)	
18. The pneumococcus	pneumonia. (to <i>produce</i>)
19. Intestinal bacilli	a large family of microbes. (to be)
20. A villusa membrane. (to be)	_ a small vascular process from the free surface of
21. The glomeruli	from the blood the non-protein portion of
plasma. (to filter)	
22. The left atrium of the heart _	blood from the pulmonary
veins. (to receive)	
V	

А Проанализируйте предложения и определите, какое существительное заменяется союзом *which/that*(выполняющим функцию подлежащего в придаточном предложении): глагол-сказуемое, стоящий после союза, имеет или не имеет окончание *-s/-es* в зависимости от числа существительного, которое заменяется этим союзом.

Пример:

Muscles are **machines** that **convert** chemical energy into mechanical energy. The pancreas produces **insulin**, which **controls** the use of sugar.

Б Переведите предложения.

- 1. The cytoplasm is a clear gel-like substance that surrounds the nucleus.
- 2. The trachea divides into right and left main bronchi which go to the lungs.
- 3. Salivary glands produce saliva, a liquid that protects the delicate membranes and mixes with food in the first step of digestion of food.
- 4. The inner ear contains the semicircular canals, which are essential to the sense of balance.
- 5. The mucous component of saliva is a sticky substance that lubricates the food.
- 6. Most fungi produce spores that enhance their survival under conditions of low moisture, high temperature, or lack of nutrients.
- 7. There are a number of uncommon conditions that result from defects in the immune system.
- 8. Enzymes are the biological catalysts that regulate chemical reactions inside cells.
- 9. The heart is primarily a pump that pushes the blood through the blood vessels.
- 10. The digestive system develops embryologically as a straight tube that enlarges, twists, and contorts at various locations.

- 11. The body is under constant threat of microorganisms that cause diseases.
- 12. Epithelial cells secrete mucus that forms a protective barrier between the cells and stomach acids.
- 13. There are many different types of cells in the body which do different jobs.
- 14. Vitamins are organic compounds that serve a variety of functions.
- 15. The nerves that radiate from the spinal cord to the rest of the body make up the peripheral nervous system.
- 16. Drugs that target specific cancers already exist for several types of cancer.
- 17. The part of the body which needs most sleep is the brain.
- 18. The bronchial arteries, which branch from the aorta, supply the lungs with oxygen.
- 19. Gene is a section of DNA that controls the production of protein.
- 20. Cartilage is a tough, flexible tissue that is softer than bone.

А Поставьте глаголы, данные в скобках, в правильную форму; для этого определите, какое существительное заменяется союзом *which/that:* в зависимости от числа существительного, которое заменяется этим союзом, глагол-сказуемое в придаточном предложении будет иметь или не иметь окончание -s/-es.

Б Переведите предложения.	
1. The cranium forms the bony cage that (to enclose)	the
brain.	
2. The human body consists of trillion of cells that (to <i>vary</i>)in size and shape.	
3. Healthy joints contain a fluid which (to <i>protect</i>)	
the bones within them.	
4. There are eleven pairs of intercostal muscles that	
(to occupy) the spaces between	
the 12 pairs of ribs.	
5. Pancreatic juice contains enzymes which (to <i>complete</i>)breakdown of food.	the
6. A gene is a piece of DNA that (to encode)	
_ a molecule of protein.	

- 7. The aorta branches into arteries that (to distribute) _ blood to all parts of the body.
- 8. The heart possesses a fibrous skeleton that (to surround)

and (to strengthen)	
many of its openings.	
9. There are several types of leucocytes which (to carry	
out) their protective functions in different	
ways.	
10. The nerves that (to <i>innervate</i>)	the various
muscles of the back arise from the segmental spinal nerves.	
11. The bacteria that (to <i>cause</i>)pneumonia	a most frequently
enter the lungs with air.	
1.5. Члены предложения и части речи	

- 1.5. члены предложения и части речи
- 1.5.1. Переход слова из одной части речи в другую (конверсия)

В английском языке одно и то же слово может являться как существительным, так и глаголом, что в словаре обозначается буквами n существительное, *v* - глагол.

Пример:

effect I [l'fekt] n 1 действие, влияние; 2 результат effect II [i'fekt] v производить, выполнять, осуществлять increase I ['ıŋkri:s] n увеличение, возрастание, рост increase II [m'kri:s] v увеличивать(ся), повышать(ся)

анализе структуры предложения (т.е. при выявлении ядра) часто бывает необходимо отличить существительное от глагола, так как их формы могут совпадать (см. приведенный выше пример). Установить различие между частями речи можно по следующим признакам.

Существительное:

- может выполнять в предложении функцию подлежащего, дополнения, обстоятельства;
- как правило, имеет артикль (a/an, the);
- может иметь определение, выраженное прилагательным, местоимением, другим существительным;
- может иметь предлоги;
- во множественном числе обычно имеет окончание -s/-es. Глагол:
- выполняет в предложении функцию сказуемого;
- согласуется в лице и числе с подлежащим, на что указывает наличие или отсутствие окончания -s/-es (ед. ч., 3-е л.) в простом настоящем времени;
- может иметь дополнение.

Например:

- This drug exerts its <u>effect</u> (существительное: имеет определение, является дополнением) on the specific organ. — Это лекарство оказывает <u>действие</u> на определенный орган.
- 2. Six small muscles <u>effect</u> (глагол: является сказуемым, согласуясь в числе с существительным-подлежащим, имеет дополнение) the movements of the eye-ball. — Шесть маленьких мышц <u>осуществляют</u> движение глазного яблока.

Упражнение 13

А Проанализируйте предложения и определите, какую функцию выполняет выделенное слово и какой частью речи оно является.

Б Найдите в словаре значения этих слов, ориентируясь на их принадлежность к той или иной части речи.

В Переведите предложения.

- 1. a) Hemoglobin is responsible for the transport of oxygen around the body.
- b) Erythrocytes transport oxygen to the tissues.
- 2. a) A major use of nitrous oxide (N2O) is in anesthesia.
- b) Through metabolism, cells capture, store, and use energy.
- 3. a) The body uses cholesterol for production of vitamin D and bile.
- b) This potent stimulant has some medical uses, particularly as an anesthetic.
- 4. a) Many enzymes have different forms in different organs.
- b) Cartilage forms the major part of bone in the very young.
- 5. a) By their union, the hepatic and cystic ducts form the bile duct.
- b) The body changes carbohydrates into fats and stores them in that form.
- 6. a) Bones have different shapes.
- b) The framework of hard bones, bendy cartilage, and tough ligaments supports and shapes the body.
- 7. a) Two principal groups of enzymes occur in plants.
- b) A modern biologist usually groups animals together in the biological kingdom «Animalia».
- 8. a) All countries face future environmental challenges.
- b) Usually the paralysis involves only one side of the face.
- 9. a) An enzyme does not control the direction of the reaction.
- b) Smooth muscles in blood vessels provide control over the distribution of blood and help regulate blood pressure.

- 10. a) The heart functions as an effective pump.
- b) The blood is a fluid tissue with many different functions.
- 11. a) The number of molecules changes during many reactions.
- b) These lymphocytes undergo certain changes in the thymus.
- 12. a) During growth, the shape and size of bones change.
- b) Nearly all chemical reactions involve a change in energy.
- 13. a) Water and waste form urine.
- b) The eyes water in response to dryness and irritation.
- 14. a) The center in the medulla oblongata coordinates respiratory muscles.
- b) Cellular responses center around the activities of T-lymphocytes.
- 15. a) Leucocytosis means an increase in the normal number of leucocytes in the blood.
- b) The blood is the chief means of transport within the body.
- 16. a) Growth in height occurs as a result of maturation of the skeleton.
- b) Hormonal deficiencies usually result in metabolic disturbances.
- 17. a) The cranium is the house for the brain.
- b) In their central hollows, the 29 vertebrae house the spinal cord.
- 18. a) Blood vessels course through every layer of bone and carry nutritive elements, oxygen, and other products.
- b) The onset, course, and duration of a fever vary with the cause.
- 19. a) Adults laugh an average of only 15 times per day, while children laugh an average 400 times daily.
- b) The biological clock in human beings times our periods of sleep and wakefulness.
- 20. a) A hormone travels through the bloodstream and exerts influence on cells, tissues, and organs.
- b) Many factors influence the activity of the body.
- 21. a) Parts of the body range from large tough bones and joints to fragile, tiny nerves and vessels.
- b) Activities such as yoga promote the full range of movement of joints and encourage maximum flexibility.
- 22. a) Different types of melanin produce different colours of hair.
- b) The brown pigment melanin colours the skin and filters out harmful ultraviolet rays in sunlight.

- 23. a) Proteins make up about 12 per cent of the weight of the human body.
- b) Water can have in its chemical make-up some substances harmful to a man.

1.5.2. Значения предлогов

Предлог - это служебное слово, которое занимает место перед существительным и служит для связи слов в предложении. В английском языке предлоги заменяют отсутствующие падежные окончания существительных. (В русском языке отношения между словами передаются падежными окончаниями и предлогами, в английском языке - только предлогами и порядком слов.)

Например, предлог *of* чаще всего передает значение русского родительного падежа: *the body of a man* = meno *человека;* предлог *by* указывает на отношения, выражаемые в русском языке творительным падежом: *by cells* = κ *летками*.

Однако между английскими и русскими предлогами нет прямого соответствия, поэтому при переводе сочетания существительного с предлогом следует подбирать русский эквивалент, учитывая многозначность английских предлогов и опираясь на контекст.

Например, в зависимости от контекста предлог *in* может указывать:

- 1) на место (in the chest в грудной полости);
- 2) на время (in *a minute* в/за или через минуту);
- 3) на физическое или душевное состояние кого-либо (to *be in good/bad health* быть здоровым/больным);
- 4) на обстоятельства (in *detail* подробно, в деталях);
- 5) на степень или объем (in *large quantities* в большом количестве) и др. Упражнение 14

А Выпишите из словаря значения приведенных ниже предлогов (некоторые из них могут иметь несколько значений).

about	inside
along with	in spite of
among	into
around	near
as	of
at	on
because of	over
before	per
between	through
by	throughout
by means of	to
despite	under
due to	underneath
during	via
for	with
from	within
in	without

Переведите предложения, содержащие приведенные в таблице предлоги. 1. Most of the ear is deep *inside* the head.

- 2. No glands are present *in* the pelvis.
- 3. Only skeletal muscle is *under* our conscious control.
- 4. The heart is *at* the center of the circulatory system.
- 5. The control of respiration is by chemical and nervous stimuli.
- 6. The oral cavity is the site *of* abundant bacterial growth.
- 7. The epidermis is a protective outer layer without blood vessels.
- 8. The liver is an important site *for* the storage and metabolism of vitamins and hormones.
- 9. The diffusion of gases *through* the respiratory membrane is essential to normal respiration.
- 10. The ulna is the thinner and longer bone in the forearm, *on* the side opposite *to* the thumb.
- 11. *Underneath* the epidermis is the thicker part of the skin, the dermis.
- 12. Bones serve as levers for muscular action.
- 13. The pulmonary valve guards the orifice *between* the right ventricle and the pulmonary artery.
- 14. In spite of years of research, there are no vaccines for common cold.
- 15. *Among* living things there is great diversity in size, shape, adaptive characteristics, and so forth.
- 16. *During* the development of certain diseases, there is often interplay between genetic and environmental factors.
- 17. The body changes carbohydrates *into* fats.
- 18. The levels of sugar in the blood vary normally *throughout* the day.

- 19. The skull articulates *with* upper part of the vertebral column.
- 20. Our senses provide accurate information *about* the position of our body parts.
- 21. Separation of blood *from* its usual environment immediately initiates biochemical processes.
- 22. The complex organization of the brain begins before birth.
- 23. Total deprivation of the supply of oxygen to the body causes death *within* minutes.
- 24. From the capillaries the blood returns to the heart *via* the veins.
- 25. Each bronchus enters the hilum of the lung *along with* the pulmonary artery and vein.
- 26. Blood is the fluid that circulates *around* the body.
- 27. Adults laugh an average of only 15 times *per* day.
- 28. The cells of the brain function by means of electrical impulses.
- 29. Loss of bone mass *due to* osteoporosis produces characteristic changes in the curvature of the spine.
- 30. The muscles in an athlete's arm grow larger because of constant exercise.
- 31. Cilia beat rhythmically and move fluid *over* the surface.
- 32. A bone grows *in* width *through* the action *of* osteoclasts.
- 33. Eight bones form the cranium *around* the brain; 14 facial bones form the skeleton *of* the face.
- 34. Bones are *at* their densest and toughest *near* the outside, where they bear the most stress.
- 35. Despite their hard outer surface, teeth are very much alive.

Тексты для тренировочного перевода к упражнениям 1-14

Выполните задания в следующей последовательности:

А Просмотрите мини-тексты и сформулируйте в одном предложении, о чем говорится в каждом из них. В мини-текстах 1-4 отмечены слова, которые помогут составить самое общее представление о содержании текстов. В остальных попробуйте найти такие слова самостоятельно.

Б Прочитайте каждое предложение в мини-тексте, найдите и подчеркните его ядро. Начните с глагола-сказуемого, который должен иметь *личную форму* в настоящем простом (неопределенном) времени.

В Опираясь на тему, контекст и структуру предложения, выпишите из словаря подходящие значения всех незнакомых слов.

Г Переведите тексты.

Пример выполнения заданий к мини-текстам

Texcm. The tongue is the largest bundle of the skeletal muscle on the floor of the mouth. It is one of the body's most mobile muscles.

 $\overline{\mathbf{A}}$ Просмотрите мини-текст и сформулируйте в одном предложении, о чем в нем говорится.

The tongue is the largest bundle of the skeletal muscle on the floor of the mouth. It is <u>one of the</u> body's most mobile<u>muscles</u>.

В Выпишите из словаря подходящие по контексту значения всех незнакомых слов.

английское слово	перевод/значение
1. tongue 2. bundle 3. floor 4. mowth mouth floor (мед. словарь)	 язык узел, пучок дно, основание рот, ротовая полость дно полости рта

Г Переведите текст.

Язык является самым крупным пучком скелетной мускулатуры (который располагается) на дне ротовой полости. Это одна из наиболее подвижных мыши тела.

* * *

рочитайте каж	сдое предложение, на	йдите и подчеркните ядро.
англ	ийское слово	перевод/значение
		New York
n 2. The aorta	branches into arteries	The smallest arteries branch in
n 2. The aorta capillaries Ca	branches into arteries pillaries channel oxyg	The smallest arteries branch intended and blood to tissues.
n 2. The aorta capillaries Ca	branches into arteries pillaries channel oxyg	The smallest arteries branch intended and blood to tissues.
capillaries.Ca	pillaries channel oxyg	The smallest arteries branch intended and blood to tissues.
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capillaries. Ca	pillaries channel oxyg	en and blood to tissues.

Прочи			
Прочи	тайте предложение, найдите и	подчеркните ядро.	
	английское слово	перевод/значение	
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ı in its p	erformance. The audible range	of the normal human ear varies w	s det
ı in its p	he ear is an extremely sensitive erformance. The audible range тайте каждое предложение, на	of the normal human ear varies w	s det vith a
ı in its p	erformance. The audible range	of the normal human ear varies w	s dete
in its p	erformance. The audible range тайте каждое предложение, на	of the normal human ear varies w	rs de

Текст

5. Vitamins are very important for the body. There are more than 13 kinds of vitamins. The need for certain vitamins increases with fever, some diseases, heavy exercise, and pregnancy.

	английское слово	перевод/значение	
L			
,			
	lla are long thread-like exten		cell, similar
a. Th	lla are long thread-like exten ne unicellular organisms <i>prot</i> e		cell, similar
a. The	e unicellular organisms <i>prote</i>	ozoa use flagella for locom	cell, similar
а. The		ozoa use flagella for locom	cell, similar
a. The	e unicellular organisms <i>prote</i>	ozoa use flagella for locom	cell, similar
a. The	e unicellular organisms <i>prote</i>	ozoa use flagella for locom	cell, similar
a. The	e unicellular organisms <i>prote</i>	ozoa use flagella for locom	cell, similar
. The	e unicellular organisms <i>prote</i>	ozoa use flagella for locom	cell, similar

7. The bladder is the most common site of malignancy of the urinary system. It affects men more frequently than women, and it occurs most frequently in persons over the age of 50.

	английское слово	перевод/значение	
			Тексп
		es is almost entirely muscu	ılar and in large
		es is almost entirely muscus s of the outer layer varies	ılar and in large
es is r tery.	more elastic. The thickness	s of the outer layer varies	ılar and in large
es is retery.		s of the outer layer varies	ılar and in large
es is r tery.	more elastic. The thickness	s of the outer layer varies	ılar and in large
es is r tery.	more elastic. The thickness	s of the outer layer varies йдите и подчеркните ядро.	ılar and in large
es is r tery.	more elastic. The thickness	s of the outer layer varies йдите и подчеркните ядро.	ılar and in large

9. During early childhood, the brain and the head grow more rapidly than any other parts of the body. The top parts of the head, the eyes, and the brain grow faster than the lower portions, such as the jaw.

	английское слово	перевод/значение	
		1	
-			
			Тексп
Thor	a are four abombers in the ho	part two atria and two va	
	e are four chambers in the he receive blood from the vein		entricles. The atr
heart	e are four chambers in the he receive blood from the vein into the ventricles.		entricles. The atr
heart	receive blood from the vein		entricles. The atr
heart tents	receive blood from the vein	s. At each heartbeat the t	entricles. The atrawo atria expel the
heart tents	receive blood from the vein into the ventricles.	s. At each heartbeat the t	entricles. The atrawo atria expel the
heart tents	receive blood from the vein into the ventricles.	s. At each heartbeat the t	entricles. The atrawo atria expel the
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heart tents рочи	receive blood from the vein into the ventricles.	s. At each heartbeat the t	entricles. The atrawo atria expel the

lung. Each bronchial tube branches into smaller tubes. Eventually the air reaches

tiny sacs, alveoli.

	английское слово	перевод/значение	
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	ies lie deep in tissues, excep		
of the dark	he neck. Veins lie closer to ker in color and flows more	the surface of the skin and e evenly than in arteries.	e, and along the
of the dark	he neck. Veins lie closer to	the surface of the skin and e evenly than in arteries.	e, and along the
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of the dark	ne neck. Veins lie closer to ker in color and flows more итайте каждое предложение, на	the surface of the skin and e evenly than in arteries.	e, and along the

Текст

13. Beneath the periosteum is a bony layer which contains the deposits of mineral matter. This layer varies in hardness from an extremely hard material in the middle region to a porous and spongy material at the ends.

Текст The human body is about 60 percent water, an amount that varies with age, I the proportion of muscles and fat. Infants have the largest percentage of wa heir bodies; men have more than women, and athletes more than non-athletery function in the body uses water. B Прочитайте каждое предложение, найдите и подчеркните ядро. английское слово перевод/значение текст At the most basic level, the human body is a collection of atoms. It is not a dom collection; the atoms (carbon, hydrogen, oxygen and many other eleme ke up molecules such as sugars, proteins, oils and, of course, the molecule the ds the code for the body itself - DNA.		английское слово	перевод/значение	
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ds the code for the body itself - DNA.	At	the most basic level, the human collection; the atoms (carbon,	n body is a collection of ato hydrogen, oxygen and ma	oms. It is not a any other eleme
	At dom	the most basic level, the human collection; the atoms (carbon, p molecules such as sugars, pro-	n body is a collection of ato hydrogen, oxygen and ma oteins, oils and, of course,	oms. It is not a any other eleme

	английское слово	перевод/значение	-
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17. The human hand is remarkable for its flexibility. It is a sensitive tool with opposable fingers and thumb. There are 14 finger bones, or phalanges, in each hand. The thumb has two phalanges, each of the other fingers has three phalanges. 27 bones of the wrist, palm, and fingers perform a wide range of movements.

-Текст

	английское слово	перевод/значение	
r _			
ves	inal nerves connect the brain w go directly from the brain to the	ne eyes, ears, and other part	s of the body. On ts of the head. T
ves wor		ne eyes, ears, and other part	s of the body. On ts of the head. T
wes wor the l	go directly from the brain to the k of nerves carries messages babody.	ne eyes, ears, and other partack and forth between the b	s of the body. On ts of the head. The brain and the res
wes wor the l	go directly from the brain to the k of nerves carries messages ba	ne eyes, ears, and other partack and forth between the b	s of the body. On ts of the head. The brain and the res
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19. More than six billion human beings are alive today and each person is different. Yet despite our differences, in one very important way we are exactly the

same. Everyone basically consists of a body and a mind. We all grow, think, eat and sleep and this unites us like one huge family.

	английское слово	перевод/значение	
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— Гh	skalatons of man and women	diffor your little Mon's h	Текст
	skeletons of men and womer	•	ones are genera
ıtly	larger and heavier. The should	lders of women are narrov	oones are generated wer, rib cages
ntly ter	larger and heavier. The should joints looser, their necks are	lders of women are narrow longer and slimmer. The	oones are generated wer, rib cages
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ntly ter all	larger and heavier. The should joints looser, their necks are	lders of women are narrow longer and slimmer. The	oones are generated wer, rib cages
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ntly ter all	larger and heavier. The should joints looser, their necks are ower and wider than the male	lders of women are narrov longer and slimmer. The pelvic cavity.	oones are generated wer, rib cages

21. epidermis is thinner than the dermis. The thickness of the epidermis varies from the very thin epidermis on the eyelids (about 0,1 millimetres thick) to the thick layer on the palms of the hands and the soles of the feet (about one millimetre thick). But even in the thinnest epidermis, there are several layers of cells.

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			1 	
	thoracic cavity houses the l			гкст
odu	es and kidneys. The pelvic c ctive organs. There is no sperom the pelvic cavity.			
Пре	очитайте каждое предложение, н	айдите и подчеркните ядро.		
Γ	английское слово	перевод/значение		
-				
Пре	очитайте каждое предложение, н английское слово			

blood. There are two main varieties: polymorphs and lymphocytes. There are three dif-

ferent kinds of polymorphs: eosinophils, basophils and neutrophils. There are two types of lymphocytes that sometimes function independently but usually in collaboration.

английское слово	перевод/значение	

24. Proteins are essential ingredients of all living matter. They make up about 12 per cent of the weight of the human body. A molecule of protein is a chain of several hundred amino-acid molecules. The biological properties of a protein depend on the exact sequence of different amino-acids in the chain (primary structure), their orientation (secondary structure) and the shape of the chain as a whole (tertiary structure). Small differences make for totally different proteins.

A

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

T)

английское слово	перевод/значение

		1.5

Существительное в функции определения

В английском языке существительное, обычно выполняющее в предложении функцию подлежащего или дополнения, может также выступать в роли определения: в этом случае образуется так называемая цепочка существительных (последовательность из двух и более существительных), в которой последнее слово является определяемым, а стоящие впереди него - определениями.

Пример:

safety rules
blood vessel
blood glucose level
water pollution control policy

Перевод

такой «цепочки существительных» обычно начинают с определяемого слова (т.е. последнего слова в цепочке), а существительное, выполняющее функцию определения, соответствует в русском языке существительному в родительном падеже. В некоторых случаях может использоваться терминологический эквивалент.

Например:

safety **rules** — **правила** безопасности
blood **vessel** — кровеносный **сосуд**blood glucose **level** — **уровень** сахара в крови
water pollution control **policy** — **стратегия** борьбы с
загрязнением воды

Упражнение 15

А Проанализируйте предложения, найдите последовательность из двух существительных, являющихся определением и определяемым словом.

- Б Переведите предложения.
- 1. Artery walls are very strong.
- 2. The external ear canal is more susceptible to infection.
- 3. Eye injuries occur in many ways.
- 4. Ear infections vary in severity.
- 5. The excretion of bile pigments is vital.
- 6. Next to sugar, salt is the greatest food additive.
- 7. Side effects of cancer treatment vary.
- 8. The dermis houses about three million tiny sweat glands.
- 9. Red blood cells are some of the smallest cells in the body.
- 10. Mature red blood cells are tiny biconcave discs.
- 11. White blood cells are infection fighters.
- 12. Phosphorus plays an important role in cell metabolism.
- 13. Blood formation begins in the liver at about six weeks.
- 14. Lymph nodes develop relatively late during fetal life.
- 15. The brain stem connects the brain with the spinal cord.
- 16. There is a wide variety of plant life in a rainforest.
- 17. There is an electrochemical change in the surface membrane of the nerve.
- 18. Villi greatly increase the surface area of the internal mucosa.
- 19. Coughing is one of the most helpful defense mechanisms in the body.
- 20. Body functions involve chemical changes that occur within cells.
- 21. For specific purposes, there is a standard world-wide measurement system.
- 22. Asthma attacks are not all the same some are worse than others.
- 23. Tissue cells produce an intercellular material that holds them together.
- 24. The body automatically maintains its water balance through the kidneys.
- 25. The study is in the pre-clinical experiment phase right now.
- 26. Environmental influences shape the complex patterns of connections between brain cells.
- 27. The survival of multicellular organisms requires a balance between cell proliferation and cell death.
- 28. The volume and distribution of body fluids vary with age, sex, and amount of adipose tissue.
- 29. The exact vitamin requirements for good health vary with age, weight, sex, and state of health.

- 30. Human growth from infancy to maturity involves great changes in body size and appearance.
- 31. In the initial stages of the disease there is edema and excessive mucus production.
- 32. These techniques provide valuable information about the presence of birth defects.
- 33. Humans and other vertebrates turn small amounts of calcium salts into bones and teeth.
- 34. Regardless of the cause, liver ailments have a common treatment.
- 35. The olfactory cells make nerve signals that travel to the brain for analysis by its smell and taste centers.
- 36. In the body fluids the molecules of water, gases, and the ions of substances in solution are in constant motion.
- 37. Protein synthesis happens in the cytoplasm of the cell.
- 38. Nerve cells are probably the largest cells. Some of them are more than three feet long.

Упражнение 16

Из приведенного ниже списка существительных подберите соответствующее контексту определение и впишите его перед определяемым словом.

animal, blood, body, cell	, ear, energy, nerve, sense, sweat, taste	
nerve carries		he optic
2. Cells reproduce by		
	rechanges.	
	_ cells contain 1,000 mitochondria.	
5. Only mammals have	glands.	
6. Some papillae contain	buds.	
7. Innerabnor	malities are rare, but generally serious.	
8. The sense of smell depend orga.	ls on the stimulation of ns in the nose by small particles in the air.	
9. Lymphatic capillaries are capillaries.	slightly larger in diameter than	
10. Measurement of	temperature provides a use	ful
indication of the state of hea	lth.	
Упражнение 17		

Переведите «цепочки» из трех существительных.

• heart attack symptoms
• skin cancer cases
bone marrow transplant
blood vessel walls
blood vessel diameter
• blood vessel diseases
• blood vessel ruptures
blood cell production
blood sugar level
• blood pH regulation
• cancer detection methods
• brain cell loss
• brain cell death
• brain cell type
• brain cell transplant
• brain cell connections
heart transplant operations
• stem cell therapy
• stem cell research
X7 1.0

Упражнение 18

А Проанализируйте предложения и найдите в них группы из двух, трех и более существительных, включающие определения и определяемое слово.

Б Переведите предложения.

- 1. Fatty deposits, or plaques, thicken blood vessel walls.
- 2. Blood cell production happens in red bone marrow.
- 3. Some elevation of blood sugar levels after meal is normal.
- 4. Blood sugar levels rise sharply in the intestinal tract after absorption of carbohydrates.
- 5. Blood pH regulation is necessary for the body.
- 6. A heart attack victim needs immediate medical care.
- 7. Cancer detection methods vary due to the location of the possible cancer.
- 8. Lumbar vertebrae occupy the posterior part of the mammal trunk region.
- 9. An axon is sinuous extension of a nerve cell body that conveys impulses to targets such as muscles, glands and other nerve cells.

- 10. Nearly all diagnostic tests available today measure individual arterial function, generally blood flow variation or changes in blood vessel diameter.
- 11. In the tropics, the atmosphere is particularly sensitive to sea surface temperature.
- 12. Brain cell loss does not occur evenly throughout the brain: in some parts it is more than in others.
- 13. The growth of microorganisms on body tissue surfaces alters the local environmental conditions.
- 14. The enormous variation in brain cell type is a key feature of the adult brain.
- 15. Sometimes brain cell death is inevitable.
- 16. Studies of brain cell transplants in animals continue.
- 17. The richness of brain cell connections accounts for much of the brain's complexity.
- 18. A bone marrow transplant between identical twins guarantees complete compatibility of leucocyte antigens between donor and recipient.
- 19. In many cases high blood pressure speeds some blood vessel diseases.
- 20. Air pollution emission laws impose large compliance costs on industry.
- 21. Water pollution control policies vary around the world.
- 22. Cell-to-cell interaction relies on the recognition of cell surface marker molecules.
- 23. The flow of blood after the blood vessel ruptures damages brain cells.

Тексты для тренировочного перевода к упражнениям 1-18

Выполните задания в следующей последовательности:

А Просмотрите мини-тексты и сформулируйте в одном предложении, о чем говорится в каждом из них.

Б Прочитайте каждое предложение в мини-тексте, найдите и подчеркните его ядро. Начните с глагола-сказуемого, который должен иметь *личную форму* в настоящем простом (неопределенном) времени.

В Опираясь на тему, контекст и структуру предложения, выпишите из словаря подходящие значения всех незнакомых слов.

Г Переведите тексты.

Teκcm 1. There are many different kinds of sugar. The most important sugar in the body is glucose. It is one of the body's most important fuels. The metabolism of glucose produces energy for the body cells.

A

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

	английское слово	перевод/значение	_
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	e is considerable variation in the		
	tinuum there is the single cell		eba, and a
r, tl	ne highly complex multicellula	ar human animal.	
	м		
i IIp	очитайте каждое предложение, най	дите и подчеркните ядро.	
Пр	очитайте каждое предложение, най	дите и подчеркните ядро.	
• IIp	очитайте каждое предложение, най английское слово	дите и подчеркните ядро. перевод/значение	7
, IIp			
IIp			
IIp			
i IIp			
lip			
()			
in i			
• Hp			

3. Cartilage is much softer than bone. It doesn't contain very many mineral salts and it doesn't contain blood vessels. It receives its nourishment by diffusion of nutrients through its intercellular substance from nearby vessels.

	английское слово	перевод/значение	
			_
•			
			 Текст 4
ear	ly embryo, the body does not l	have bones. Their shapes b	
star	nce, cartilage. Nuggets of bone	e, ossification centers, ther	begin as a soft n develop at certa
star nts		e, ossification centers, ther	begin as a soft n develop at certa
star nts ne.	nce, cartilage. Nuggets of bone	e, ossification centers, ther	begin as a soft n develop at certa
nts ne.	nce, cartilage. Nuggets of bone within the cartilage. They grow	e, ossification centers, ther w and spread, and cartilage	begin as a soft n develop at certa
nts ne.	nce, cartilage. Nuggets of bone	e, ossification centers, ther w and spread, and cartilage	begin as a soft n develop at certa
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star nts ne.	nce, cartilage. Nuggets of bone within the cartilage. They grov	e, ossification centers, ther wand spread, and cartilage и подчеркните ядро.	begin as a soft of develop at certal turns into true

5. The skeleton first develops as soft, gristly cartilage. Bone tissue spreads out from various sites in the cartilage into bone. At birth some of the «bones» are still partly cartilage. In childhood the facial bones grow faster, and the skull bones knit together firmly at sutures.

	английское слово	перевод/значение	_
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her	e are many minerals that are e	ssential for health. One of	Текст
	e are many minerals that are estimated to the body is iron. It makes		the important
nera	e are many minerals that are earls for the body is iron. It makes	s red blood cells and is in	the important in enzyr
nera cess	ls for the body is iron. It makes	s red blood cells and is in	the important in enzyr
nera cess ldre	ls for the body is iron. It makes ses and in the immune response	s red blood cells and is im e. Everyone needs iron bu	the important in enzyrate women and yo
nera cess ldre A	ls for the body is iron. It makes ses and in the immune response n need more iron than others.	s red blood cells and is im e. Everyone needs iron bu	the important in enzyrate women and yo
nera cess ldre	ls for the body is iron. It makes ses and in the immune response n need more iron than others.	s red blood cells and is im e. Everyone needs iron bu	the important in enzyrate women and yo
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ldre	ls for the body is iron. It makes ses and in the immune response in need more iron than others. питайте каждое предложение английское слово	s red blood cells and is ime. Everyone needs iron but, найдите и подчеркните перевод/значение	the important in enzyrate women and yo

7. There are between 2 and 5 sweat glands in the body. These function in the regulation of body temperature and in the excretion of waste. Sweat glands are

simple tubular in type and especially numerous in thick skin. Some of the	ir ducts
open directly onto the skin surface.	
<u>A</u>	

		английское слово	наралат/ананания	
d is the chief means of transport within the body. It transports oxyges to the body tissues, and carbon dioxide from the tissues to the ludow from a vein usually flows more slowly and steadily than the bartery. Blood makes up about 8 percent of body weight. This among in women and 5-6 liters in men.		англииское слово	перевод/значение	
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	re in t	1 / / 11.		
	15 111 1	women and 5-6 liters in	men.	
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английское слово перевод/значение				
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		йте каждое предложение, н	айдите и подчеркните ядро.	
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9. Connective tissues create the internal framework of the body. The connective

tissue system supports and connects internal organs, forms bones and the walls of blood vessels, attaches muscles to bones, and replaces tissues of other types after injury. Fasciae are connective tissue layers that support and surround organs. A layer of fascia is an effective barrier against the spread of infection through the tissues. A Б Прочитайте каждое предложение, найдите и подчеркните ядро. В английское слово перевод/значение **—**Текст 10. There are two types of brain cells, neurons and glia, with at least fifty different subtypes. Neurons do most of the brain's work. Glial cells do not conduct or process information, but support the work of the neurons and are also important in early brain development. Many accounts of the brain structure and function are available. В Прочитайте каждое предложение, найдите и подчеркните ядро. \mathbf{B}

английское слово	перевод/значение

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embr cepto 70 ma ructu ateria	man cells have a membrane that rane is not just a sac. It has received or soften alter or control the cell ajor compartments, the cytoplastics that perform the cell's functional and the structures that control is mitochondria which are tiny structures.	ptors. Reactions that take parties functions. Within the center and the nucleus. The cylions. The nucleus contains I cell division and reproductions.	place at the ll membrane an toplasm contai the cell's gene ction. Inside ev
A	intochondra which are thry so	iructures that provide the e	en with energy
	рочитайте каждое предложение, най;	•	
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	рочитайте каждое предложение, найд	дите и подчеркните ядро .	
	рочитайте каждое предложение, найд	дите и подчеркните ядро .	
	рочитайте каждое предложение, найд	дите и подчеркните ядро .	

12. The organs of taste are the taste buds. Some of them are on the throat, cheek, and the roof of the mouth. But most are on the tongue. Taste buds work better when they are wet. Nerve endings in the taste buds respond to chemicals in the substances. Each taste bud responds only to the kind of basic taste that is its specialty. The sweet and salt taste buds are most numerous on the tip and front part of the tongue, sour taste buds are mainly along the edges, and bitter taste buds are at the back of the tongue. The solid center of the tongue's surface has very few taste buds.

13. Water accounts for about 60 per cent of a man's body weight and 50 per cent of a woman's. The difference is due to the average woman's larger proportion of fat, which contains no water. The plasma of the blood contains rather more than 3 litres, and the tissue fluid about 12 litres. Together, these 15 litres make up the extracellular fluid. The balance between blood, tissue fluid and cells remains almost constant and there is a rapid and continuous exchange of water between them.

–Текст

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

английское слово

0

			ı
-			
_			
_			
	·	·	

перевод/значение

_ Текст

14. Plasma makes up about 55% of the total volume of blood, while red and white blood cells make up 45%. Blood cells and platelets are incredibly tiny. In a single drop of blood there are approximately 250 million red blood cells, 16 million platelets and 375,000 white blood cells. Red blood cells carry oxygen to the tissues. White blood cells of different types detect and destroy harmful microorganisms. Platelets play a key role in blood clotting.

A		
Б	Прочитайте каждое предложение, най	дите и подчеркните ядро.
В		
	английское слово	перевод/значение

Γ	
	Текст

15. The skin is one of the most complex organs in the body. There is an outer layer, or epidermis, a middle layer of fibrous tissue, the dermis, and beneath this a layer of subcutaneous fat. The dermis is much thicker than the epidermis. The skin grows faster than any other organ. It is very thin and delicate in some areas and much thicker and tougher in others. The thickest skin is on the palms of the hands and the soles of the feet. The skin over the eyelids is the thinnest of all. Regardless of its thickness, skin everywhere undergoes a continuous process of renewal. With age the skin changes. The dermis gradually loses some of its fatty and elastic tissues. The skin becomes thinner and drier with more wrinkles.

A

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

	английское слово	перевод/значение	
_			
			1.6. Глагол
			1.0.1 1141 01

в прошедшем простом (неопределенном) времени

Сказуемые, выраженные глаголом в прошедшем простом (неопределенном) времени, обозначают обычные, регулярные действия, имевшие место в прошлом.

В зависимости от способа образования формы прошедшего времени (называемой также 2-й формой глагола) все английские глаголы делятся на две группы: *правильные* и *неправильные*.

Правильные глаголы имеют в прошедшем времени окончание -ed.

Признаком принадлежности к группе неправильных глаголов является особая форма прошедшего времени.

```
Пример:

инфинитив/первая форма форма прошедшего времени/вторая форма

contain contained (правильный глагол)

come came (пеправильный глагол)

Форма
```

прошедшего времени правильных глаголов в словаре не приводится. Форма

прошедшего времени неправильных глаголов обязательно приводится в словаре и стоит непосредственно после неопределенной формы.

Пример:

come [kлm] v (came; come) 1 приходить, идти...

Рорму

прошедшего времени неправильного глагола можно также найти в словаре в отдельной словарной статье (по алфавиту): она обозначается как *«past* от ...» (в нашем примере: *«past* от *come»*). Такая форма приводится без перевода: глагол обычно находят по неопределенной форме, т.е. в данном примере следует обращаться к словарной статье *«come»*.

Упражнение 19

А Найдите и подчеркните в предложениях сказуемые, выраженные глаголами в прошедшем времени. Определите и впишите первую форму (инфинитив) этих глаголов. Форму инфинитива неправильных глаголов можно уточнить по словарю.

Б Переведите предложения.

1. Research into flu <u>began</u> in 1901. (<i>begin</i>) Исследования гриппа начались в 1901 г.
2. With anesthesia all surgery became safer. ())
3. Galen's theories influenced science development. ())
4. R. Koch (1843-1910) found methods of identification and classification of bacteria.
5. L. Pasteur (1822-1895) laid the foundation of microbiology. (
6. R. Bright (1789-1859) paid great attention to postmortem examinations of patients. ()
7. Laennec (1781-1826), a French physician, wrote admirable studies of numerous disorders of the heart and lungs. ()
8. Leonardo da Vinci (1452-1519) left incomparable drawings of his dissections of every part of the body. ()
9. In 1921, a Canadian scientist F. Banting (1891-1941) undertook research on the internal secretion of the pancreas. ()
10. Much of Freud's work dealt with the conflicts between the conscious mind and unconscious instincts. ()
11. Until the 18 th century smallpox caused the most lethal of all the acute

12. Invention of the electron microscope in 1938 gave clear images of submicroscopic world of viruses. ()
13. The Earth's climate grew warmer and drier during the Permian Period, which began about 275 million years
ago. ()
14. Twenty years ago, we didn't even diagnose autism as a separate disorder; it was a symptom of childhood schizophrenia. (/
15. Several recent studies showed a connection between stress and illness. ()
16. The later half of the 19 th century saw advances in science acceleration and the birth of whole new areas of research. ()
17. W. Harvey (1578-1657) made the most important discovery in the history of scientific medicine. ()
18. In 1691, an English doctor C. Havers made the first description of microscopic structure of bones. ()
1.7. Значения глагола will
1.7.1. Глагол в будущем простом (неопределенном) времени
Сказуемые, выраженные глаголом в будущем простом (неопределенном) времени, обозначают обычные, регулярные действия или сообщают факты, которые произойдут в будущем.
Для образования форм английского глагола в будущем времени во 2-м и 3-м лицах единственного и множественного числа служит глагол will (для глаголов в 1-м лице используется либо вспомогательный глагол <i>shall</i> , либо will).
Пример: The water will boil in two minutes.

Глагол *will* в значении настоящего времени

В научно-технических текстах глагол *will* нередко имеет значение настоящего времени и используется для выражения: 1) возможности, способности, 2) неизбежности, 3) привычного состояния, часто повторяющегося действия.

Например, сравните:

- The water <u>will boil</u> in two minutes.
 Вода закипит через две минуты.
- Water <u>will boil</u> at 100 °C.
 Вода (обычно) закипает при 100 °C.

Упражнение 20

Переведите предложения, в которых глагол will использован в характерных для научного текста значениях.

- 1. Oxygen will dissolve in water.
- 2. Saliva will start the process of digestion.
- 3. Without adequate supply of blood tissue will die.
- 4. Ten per cent loss of the body water will bring delirium.
- 5. No single food will make or break good health.
- 6. Some white blood cells will attack and kill germs.
- 7. Each spinal nerve will form two main branches, a ventral and a dorsal.
- 8. A healthy human being will lose some 2,4 litres of fluid a day in the form of sweat, urine, and water vapour.
- 9. The optimum level of cholesterol will differ from person to person according to differences in, say, body-type, lifestyle and behavior.
- 10. The number of leukocytes in the blood will rise or fall in response to certain abnormal conditions.
- 11. The normal heart will undergo over 3 billion contractions during a normal lifetime.
- 12. Through the processes of growth and development, the somatic cells will become the tissues, organs, and systems that compose the adult human body.
- 13. There is no drug that will cure arthritis.
- 14. Often a therapist will suggest multiple treatments of phobias.
- 15. Vitamins alone will not take the place of a good diet and will not provide energy.
- 16. Two of three diabetics will die from cardiovascular disease.
- 17. During an average breath, an adult will exchange from 500 ml to 700 ml of air.
- 18. Injury of the heart will affect the peripheral tissues that depend on the delivery of nutrients and removal of wastes through the blood vascular system.
- 1.8. Глагол в перфектной форме настоящего времени

Кроме группы простых времен (Simple Tenses), которым посвящены пп. 1.4, 1.6, 1.7 практикума, система времен английского глагола включает также другие группы: перфектные времена (The Perfect Tenses), продолженные (The Continuous Tenses) и перфектно-продолженные (The Perfect Continuous Tenses).

Сказуемое в перфектной форме настоящего времени обозначает действие, завершенное к настоящему моменту (к моменту речи), который либо указан в предложении, либо подразумевается из контекста.

Такая глагольная форма состоит из двух элементов, а именно - вспомогательного глагола *have* (который согласуется в лице и числе с подлежащим) и *смыслового глагола в 3-й форме* (также называемой причастием прошедшего времени - *Past Participle*):

$have/has + V_3$

3-я

форма *правильных* глаголов совпадает с формой прошедшего времени, т.е. имеет окончание *-ed*, и в словарях не приводится. Причастие прошедшего времени *неправильных* глаголов (3-я форма глагола) обязательно приводится в словарях и указывается, как и 2-я форма, в скобках.

Пример:

eat [i:t] v (ate; eaten) 1 есть, питаться ...

3-ю форму

неправильного глагола (т.е. причастие прошедшего времени) можно также найти в словаре в отдельной словарной статье (по алфавиту): она обозначается как *«р.р.* от ...» (в нашем примере: *р.р.* от eat). Такая форма приводится без перевода: глагол обычно находят по неопределенной форме, т.е. в данном примере следует обращаться к словарной статье «eat».

Пример:

eaten [i:tn] p.p. or eat

некоторых неправильных глаголов 2-я и 3-я формы совпадают. В таком случае в словарной статье в скобках указывается только одно слово.

Пример:

buy [bai] v (bought) 1 покупать, купить ...

На русский

язык глагол в перфектной форме настоящего времени переводится глаголами совершенного вида в прошедшем времени.

Например:

Today the biologists <u>have described</u> more than a million living species.

К настоящему времени биологи <u>описали</u> более миллиона существующих видов.

Если в

предложении указывается *период* совершения действия, сказуемое в перфектной форме настоящего времени переводится на русский язык глаголом в настоящем времени.

Например:

Animals <u>have existed</u> for 600 million years. Животные <u>существуют</u> (уже) 600 миллионов лет.

Упражнение 21

А Найдите и подчеркните в предложениях сказуемые, выраженные глаголами в настоящем перфектном времени, и определите первую форму (инфинитив) смыслового глагола. Форму инфинитива неправильных глаголов можно уточнить по словарю.

Б Переведите предложения

Упражнение 22

А Найдите и подчеркните ядро в следующих предложениях. Проанализируйте форму сказуемого (время, лицо, число).

Б Переведите предложения.

- 1. Grains have nourished humans since early times.
- 2. Just 600 human generations have passed since the end of the last Ice Age.
- 3. The blood that has passed through the tissues flows along veins to the heart.
- 4. Genetics has discovered thousands of mutations responsible for diseases in humans.
- 5. The hormones have become agents of great importance in radio-therapeutic techniques.
- 6. There have been plenty of studies on the subject, but none has been conclusive.
- 7. Every living thing a dolphin, an ant, a daisy, or a human body has begun life as a single cell with a few molecules of DNA.
- 8. Drugs have extended our lives and improved quality of life in countless ways.
- 9. The last 60 years have witnessed remarkable achievements in cardiovascular medicine and surgery.
- 10. Anatomy has been a subject of great interest since ancient times.
- 11. There has been no significant change in human DNA in the last ten thousand years.
- 12. The outlook for patients with hypertension has improved markedly in recent years with the development of antihypertensive drugs.
- 13. The concentration of carbon dioxide in the atmosphere has mounted considerably over the past century or so.
- 14. For over sixty years researchers have observed an increase of association between sun exposure and cancer mortality.
- 15. Over the past 30 years, scientists have identified various proteins that activate or silence genes.
- 16. Radical improvements in the care of people under general anesthesia have laid the foundation for such procedures as organ transplantation and open-heart surgery.
- 17. In recent years, there have been all sorts of advances in everything from molecular biology to neuroscience, psychology, anthropology, sociology.
- 18. Development of techniques of cell, tissue and organ culture and electron microscopy has greatly expanded the range of methods available for study of endocrine mechanisms and has added much to knowledge of them.

Упражнение 23

А Поставьте глаголы, приведенные в скобках, в форму настоящего перфектного времени. Для этого необходимо использовать форму глагола *have* в настоящем времени, соответствующую числу и лицу подлежащего, а также уточнить по словарю, к какой группе - правильных или неправильных - относится смысловой глагол, и использовать в предложении его 3-ю форму.

Б Переведите предложения.	
1. Many effective treatments for heart f	failure (ío <i>emerge</i>)
	in recent years.
2. Humans (ío <i>eat</i>)	_vegetables, fruit, fish and meat since the
Stone Age.	
3. Coffee (ío <i>be</i>)	
in use since the second century AD.	
4. Every living thing (to <i>begin</i>)	its life as a single cell.
5. Throughout history, water (to have)_	
a huge impact on our lives.	
6. Scientists (to <i>identify</i>)	
hundreds of kinds of cancer cells.	
7. Solar energy in its various forms (ío	play)
a significant role in the progress of	
humanity.	
8. Over the past century the concentration (to <i>rise</i>)	on of carbon dioxide in the atmosphere
9. Improvements in the detection and tr	reatment of cancer
(to contribute)	to the
drop in death rates.	
10. In the past one hundred years, medi	cine (to progress)
further than	at any time in
history due to the development of biolo	gical sciences.
11. Rapid industrialization and urbanization	ation in Asia (to cause)
severe air pollution over many countrie	S.
12. A number of research groups in different (to <i>make</i>) careful subservations.	
13. Lymphatic vessels drain fluids that	(to diffuse)

through the very thin walls of
capillaries.
14. Climate change is the most serious environmental threat that the world ever (to face)
15. In recent years, there (to be)
all sorts of advances in every field of science.
16. The human brain (to change)
in complexity and size over thousands of years.
17. Over many millions of years, the amount of water on Earth (to remain)
the same.

1.9. Глагол в формах продолженного времени

Сказуемое, имеющее форму продолженного времени, обозначает действие в развитии, процесс, происходящий в определенный момент времени в настоящем, прошедшем или будущем. Такое сказуемое состоит из двух частей, а именно - вспомогательного глагола to be (который согласуется в лице и числе с подлежащим и указывает на время осуществления действия) и смыслового глагола в 4-й форме (называемой также причастием I или причастием настоящего времени). Формальным признаком этого причастия является окончание -ing:

$be + V_{ing}$

4-я форма

глагола образуется одинаково для правильных и неправильных глаголов и в словарях не приводится. Для определения значения смыслового глагола по словарю следует отбросить окончание *-ing* и найти значение инфинитива (неопределенной формы глагола).

Пример:

is influencing

influence ['mfluəns] v 1 влиять, оказывать влияние

На русский

язык такая форма глагола переводится, как правило, глаголами несовершенного вида.

Hanpumep:The Sun is continually warming the Earth.Солнце постоянно обогревает Землю.
переводе глагольных форм продолженного времени на русский язык грамматическое значение длительности, процессуальности действия нередко нуждается в лексическом «усилении»; для этого в русском переводе могут использоваться слова постоянно, непрерывно и др.
<i>Hanpumep:</i> The forests of the world <u>are disappearing</u> . Леса <u>непрерывно</u> (постоянно) <u>исчезают</u> с поверхности Земли.
Упражнение 24 А Найдите и подчеркните в предложениях сказуемые, выраженные глаголами в настоящем продолженном времени, и определите первую форму (инфинитив) смыслового глагола. Уточните правописание неопределенной формы глагола по словарю. Б Переведите предложения.
 Technology is chang ing fast. (change) The research is now moving from lab to clinic. ()
3. Restrictions on this research are slowing the progress. () 4. Some of these questions are now finding answers.
() 5. People are living longer than ever before. ()
 6. Treatment for osteoarthritis is constantly improving due to new, highly effective anti-inflammatory drugs. () 7. Fortunately, some new treatments of this disorder are emerging. (
8. The bone marrow is continually producing erythrocytes. () 9. There is a clear connection between sleep and health, sleep deprivation and disease, and the evidence is getting stronger. ()

10. From birth to the age of 21, child's gastrointestinal, neurological	and
cardiovascular systems are constantly changing. ()	
Упражнение 25	

А Найдите и подчеркните ядро в следующих предложениях. Проанализируйте форму сказуемого (время, лицо, число).

Б Переведите предложения.

- 1. Acupuncture is getting acceptance in Western medicine for treatment of some conditions.
- 2. Our lifestyles are changing and causing an increase in the levels of energy use.
- 3. The number of young and old people in the population is changing dramatically.
- 4. Heart transplant operations are becoming more and more common.
- 5. Every cell, tissue, organ, and system of the body is working constantly.
- 6. Signals are coming in the brain from all parts of the body all the time.
- 7. Inside any cell a multitude of chemical reactions is taking place.
- 8. Numerous groups around the world are working on cancer vaccines.
- 9. Through the development of better surgical techniques, better radiation therapy, and the application of newer drugs, the control of brain tumors is improving gradually.
- 10. In your mother's womb, your body was forming nerve cells at the rate of about onequarter million per minute.
- 11. Due to species extinction, the diversity of the forms of life that inhabit the planet is diminishing.
- 12. Arabian physicians were using opium preparations very effectively and extensively in their medical practice.
- 13. Blood pressure is highest during systole, when the ventricles are contracting and lowest during diastole, when the ventricles are relaxing and refilling.

Упражнение 26

А Подберите к началу предложений, содержащему глагол-связку *to be* (левая колонка), соответствующее по смыслу продолжение, содержащее 4-ю форму смыслового глагола (Fing) из правой колонки.

Б Переведите составленные вами предложения.

1. The body is always	a) moving.	7
2. Human activities are now	b) using energy.	1
3. The contents of the chest and abdomen are constantly	c) causing damage to the ozone layer.	
4. The bones of a living person are constantly	d) varying with the movement of ribs and the diaphragm.	
 Numerous nerve endings in the muscles, tendons, bones, and joints are continuously 	e) moving in the atmosphere.	
3. Water is continuously	f) rebuilding itself.	1
. Even during sleep muscles are constantly	g) reshaping and rebuilding themselves.	1
8. The size of the thoracic cavity is constantly	h) sending impulses back to the central nervous system.	1
		. 3.
		- 4.
		- - 5.
		- 6.
		- -7.
		-8.
		- 1.1

Глагол в формах перфектно-продолженного времени

Сказуемое в форме перфектно-продолженного времени обозначает действие, которое началось в прошлом и продолжается в момент речи. Чаще других в текстах встречается форма *настоящего* перфектно-продолженного времени. Такое сказуемое состоит из двух частей:

- 1) перфектной формы глагола *to be* (*have/has been*), первый элемент которой *have/ has* согласуется с подлежащим в числе и лице и указывает на время (в наших примерах на настоящее время);
- 2) *причастия I* (т.е. 4-й формы глагола Ving)

Такая глагольная форма часто используется вместе с предлогами *for* или *since*, которые указывают, в течение какого периода времени длится действие.

Пример:

have been using

На русский

язык глагол в форме перфектно-продолженного времени переводится глаголами несовершенного вида в настоящем времени (при необходимости добавляется слово *уже*).

Например:

Human beings <u>have been using</u> plants *for* thousands of years. Люди <u>используют</u> растения <u>уже</u> в течение нескольких тысяч лет.

Упражнение 27

А Найдите и подчеркните сказуемое, имеющее форму перфектно-продолженного времени.

Б Переведите предложения.

- 1. The search for better health has been going on for centuries.
- 2. Lately vitamin D deficiency has been making a comeback.
- 3. Cancer death rates have been falling since 1991.
- 4. More and more men have been entering the nursing profession.
- 5. Demand for energy has been growing steadily over recent decades.
- 6. Mountain glaciers have been shrinking in almost all areas of the world.
- 7. Doctors have been using acupuncture in China for over two thousand years.
- 8. Doctors have been operating on fetuses since the early 1980s.
- 9. Human beings have been applying cosmetics since antiquity.
- 10. Scientists have been investigating the different functions of the right and left cerebral hemispheres for some time.
- 11. Since the 1960s physicians have been experimenting with transplants of the islets of Langerhans.
- 12. In recent years, scientists have been documenting remarkable signs of intelligence and emotional depth in animals from bees to elephants.
- 13. The Earth has been evolving gradually for 4.5 billion years, and is still changing today.

- 14. Since 1850 atmospheric CO2 concentrations have been increasing dramatically due to the burning of fossil fuels and the destruction of forests, particularly in the tropics.
- 15. Humankind has over many centuries been exploiting the Earth and its resources.
- 16. Green-house gas concentrations in the atmosphere have been rising since the industrial revolution in the 18thcentury.
- 1.11. Система времен английского глагола в активном залоге Упражнение 28 (обзорное)

Таблица 1. Образование времен английского глагола в действительном залоге

Course massay	Время		
Группы времен	настоящее	прошедшее	будущее
Простое (неопределенное)	V Vs	V_2	shall will v
Продолженное	is are Ving	was were } Ving	shall will be Ving
Перфектное	have has V ₃	had V ₃	shall have V ₃
Перфектно- продолженное	have has been Ving	had been Ving	shall will have been Ving

Пользуясь таблицей 1, иллюстрирующей образование времен английского глагола в действительном залоге, найдите и подчеркните в каждом предложении сказуемое и дайте его полную характеристику: лицо, число, время, группа.

Пример: has survived — 3-е лицо, единственное число, настоящее время, перфектная группа.

- Б Переведите предложения.
- 1. Research in these areas is moving very fast.
- 2. People vary in their reaction to different antigens.
- 3. In smokers alveoli become less stretchy.
- 4. For thousands of years people have been eating the leaves of plants.
- 5. Antibiotic drugs have greatly improved the treatment of abscesses.
- 6. Impressive data support this view.
- 7. People are polluting the atmosphere with extra greenhouse gases.

- 8. Femur is the largest bone in the body, and it supports the body's weight.
- 9. Deoxyribonucleic acid is the molecule which carries the genetic code that determines heredity.
- 10. Bones act as mineral stores and are constantly exchanging calcium with blood.
- 11. Higher temperatures have already had a measurable effect on land glaciers and sea ice.
- 12. The cells at the base of the epidermis are alive and are constantly growing and multiplying.
- 13. The nerve cells of the brain are constantly sending and receiving messages from the eyes, ears, muscles, and other parts of the body.
- 14. Herophilus (335-280 BC) made important discoveries about the brain and the nervous system, and made the first clear distinction between arteries and veins.
- 15. Lymph is constantly moving around the body but the lymphatic system has no central pump equivalent to the heart.
- 16. Several metabolic problems that affect many systems influence the growth and the development of the skeletal system.
- 17. The Ancient Egyptians made millions of mummies, but little of their purely anatomical knowledge has survived.
- 18. About two months after fertilization, all of the major organs have formed, and the baby's heart is beating, and yet its body is still just 25 mm long.
- 19. Climate change because of global warming will result in large changes in water supplies in many places.
- 20. Arteries are carrying pure blood to various parts of the body, and the veins are bringing back blood with waste products.
- 21. Between 1900 and the 1930s the physical nature of viruses became clearer, but their methods of infection and reproduction remained a mystery.
- 22. Since the 1985 discovery of a dramatic springtime thinning of the ozone layer over Antarctica, researchers have been speculating on its cause is it chemical destruction by chlorofluorocarbons or simply a rearrangement of ozone by winds peculiar to Antarctica?
- 23. Lymph capillaries in the tissues pick up excess tissue fluid that has passed out through blood capillaries and return it, via lymph nodes, to veins that empty into the right side of the heart.

Упражнение 29*

А В соответствии с содержанием предложений поставьте глаголы, данные в скобках, в правильную форму (используйте таблицу 1 на стр. 113).

Б	Переведите	предложения.
---	------------	--------------

1. People today ______ longer than people ever have. (ío *live*)

2. Because of the activities of people the amount of carbon dioxide in the atmosphere
(io <i>rise</i>)
3. Biochemistry with the whole range of living organisms from the
simplest to the most complex. (io deal)
4. In the 1980s, theresubstantial
advances in the treatment of breast cancer. (ío be)
5. The acini digestive enzymes
necessary for the digestion of proteins, carbohydrates and fats. (io secreie)
6. The concentration of water vapour in the air widely. (io <i>vary</i>)
7. The Sun for
five billion years. (ío burn)
8. People wind energy in one form or another for
thousands of years. (io use)
9. Doctors heart transplants since 1967. (to <i>perform</i>)
Тексты для тренировочного перевода к разделу 1 <i>Выполните задания в следующей последовательности:</i>
А Просмотрите мини-тексты и сформулируйте в одном предложении, о чем говорится в каждом из них.
Б Прочитайте каждое предложение в мини-тексте, найдите и подчеркните еги ядро. Начните с глагола-сказуемого, который должен иметь личную форму в настоящем, прошедшем или будущем времени (в простой, продолженной, перфектной или перфектно-продолженной форме).
В Опираясь на тему, контекст и структуру предложения, выпишите из словаря подходящие значения всех незнакомых слов.
Г Переведите тексты.

Town 1 The Footh was also in a second of the most of t

Teκcm 1. The Earth population is growing faster and faster. The number of elderly people is growing worldwide.

	английское слово	перевод/значение	7
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			Γ
	1 1' '	C 1 ' 1 C.	Текст
	ole are living more active lives re traveling much longer distan		
•	nger than today.	nces man in the past. In the	ruture people
	iigoi mun waay.		
A			
БΠ	рочитайте каждое предложение, най	ідите и подчеркните ядро.	
D.			
	английское слово	перевод/значение	
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<u>î</u>	use of V mays againment in he	omitals haven in the lete 10	
	use of X-rays equipment in ho		390s. The X-ra
ontrib	use of X-rays equipment in ho outed greatly to our knowledge		390s. The X-ra
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ontrib A	• 1 1	of the physiology of the di	390s. The X-ra
ontrib <u>A</u>	outed greatly to our knowledge	of the physiology of the di	390s. The X-ra
ontrib A	outed greatly to our knowledge	of the physiology of the di	390s. The X-ra

of t	has existed on Earth for somet hat time water has been essenti		` · · · · · · · · · · · · · · · · · · ·
А Бп	рочитайте каждое предложение, най	пите и полиенкните ялно	
В	рочитаите каждое предложение, наи	дите и подчеркните идро.	
	английское слово	перевод/значение	
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r	nanda da Vinai (1450-1510) da	voted much time to seion	Tekem
	nardo da Vinci (1452-1519) de	voted much time to scien	illic studies. He

английское слово	перевод/значение	_
		——Тексі
h	a a wine a la avet the a course see	
h century there were several th		
ch (1865) established the link l	between microbes and dise	ase and ultim
many lives.		
•		
рочитайте каждое предложение, на	йдите и подчеркните ядро.	
рочитайте каждое предложение, на	йдите и подчеркните ядро.	
рочитайте каждое предложение, на	йдите и подчеркните ядро.	
рочитайте каждое предложение, на английское слово	йдите и подчеркните ядро. перевод/значение	

7. Doctors treat this disease with antibiotics and treatment usually lasts for at least two weeks. The choice of antibiotics will depend on the patient's history of allergies and laboratory testing of the bacteria that have caused the infection.

	английское слово	перевод/значение	
L			
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			 Тексі
	weeks into development, the		e of a pea. It b
e res	semblance to a human - its fac	e has not yet formed, and	e of a pea. It b it has a tail-li
e res	semblance to a human - its fac on instead of legs. However, it	e has not yet formed, and	e of a pea. It b it has a tail-li
e res	semblance to a human - its fac	e has not yet formed, and	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its fac on instead of legs. However, it	e has not yet formed, and as heart is forming, and the	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its factor instead of legs. However, it ord are present.	e has not yet formed, and as heart is forming, and the	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its factor instead of legs. However, it ord are present.	e has not yet formed, and as heart is forming, and the	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its facton instead of legs. However, it ord are present.	e has not yet formed, and the s heart is forming, and the дите и подчеркните ядро.	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its facton instead of legs. However, it ord are present.	e has not yet formed, and the s heart is forming, and the дите и подчеркните ядро.	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its facton instead of legs. However, it ord are present.	e has not yet formed, and the s heart is forming, and the дите и подчеркните ядро.	e of a pea. It b it has a tail-li
e resensional co	semblance to a human - its facton instead of legs. However, it ord are present.	e has not yet formed, and the s heart is forming, and the дите и подчеркните ядро.	e of a pea. It b it has a tail-li e beginnings o
e resensional co	semblance to a human - its facton instead of legs. However, it ord are present.	e has not yet formed, and the s heart is forming, and the дите и подчеркните ядро.	e of a pea. It b it has a tail-li e beginnings o

9. The army in ancient Rome was responsible for many of the important developments in medicine. Military campaigns had taught Roman doctors about the nature of wounds and surgery, and they also used gladiators' wounds as «windows into the body».

		перевод/значение	
			Текст
	ent brain studies and new ty		
	and cardiovascular health. Po		at higher risk fo
di	sease and vice versa Recen		
	souse, and vice versu. Iteeen	t research is shedding ligh	t on this connec
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Ä	итайте каждое предложени		
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Ř			
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i.	итайте каждое предложені	ие, найдите и подчеркни	

protein synthesis; in cells which are actively growing and dividing and in cells which actively synthesize protein, nucleoli are large and often multiple.

	английское слово	перевод/значение	
			 Тексп
		nat the tissues need. For examore blood than they do wh	
Проч	итайте каждое предложение, і	найдите и подчеркните ядро.	
			\neg
	английское слово	перевод/значение	

13. Energy production varies greatly from person to person. A heavier person produces more energy than a lighter person. For two individuals of the same weight the taller and leaner will produce more energy than the shorter and stouter. Men produce more energy than women.

Г	английское слово	перевод/значение	
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L			Γ
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cent.	watery part of the blood is the Small amounts of many important in the	ortant substances are pre	esent in it. When a
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cent. hese	Small amounts of many important in the	ortant substances are problems blood in the correct am	esent in it. When a
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cent. hese ne org	Small amounts of many important in the	ortant substances are problem blood in the correct am properly.	esent in it. When a
cent. hese ne org	Small amounts of many important materials is not present in the gan or system is not working	ortant substances are problem blood in the correct am properly.	esent in it. When a
cent. hese ne org	Small amounts of many important materials is not present in the gan or system is not working	ortant substances are problem blood in the correct am properly.	esent in it. When a
cent. hese ne org	Small amounts of many important materials is not present in the gan or system is not working рачитайте каждое предложение, най	ortant substances are preblood in the correct am properly.	esent in it. When a
cent. hese ne org	Small amounts of many important materials is not present in the gan or system is not working рачитайте каждое предложение, най	ortant substances are preblood in the correct am properly.	esent in it. When a
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hese he org	Small amounts of many important materials is not present in the gan or system is not working рачитайте каждое предложение, най	ortant substances are preblood in the correct am properly. дите и подчеркните ядро. перевод/значение	esent in it. When a nount, it is a sign the

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

ļ	английское слово	перевод/значение	_
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			Текст
	search into overeating and obe	sity has accelerated in rece	•
d re	eason: excess weight is the mo	est important risk factor for	cardiovascula
	eason: excess weight is the mo	_	
ase		_	
ase abc	and diabetes. In their quest for	_	
ase abo	and diabetes. In their quest folic hormones.	or causes, scientists have lo	
ase abo	and diabetes. In their quest for	or causes, scientists have lo	
ase abo	and diabetes. In their quest folic hormones.	or causes, scientists have lo	
ase abo	and diabetes. In their quest foolic hormones.	or causes, scientists have lo	
ase abo	and diabetes. In their quest folic hormones.	or causes, scientists have lo	
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ase abo	and diabetes. In their quest foolic hormones.	or causes, scientists have lo	
ase abo	and diabetes. In their quest foolic hormones.	or causes, scientists have lo	

17. Human beings are a part of nature. We are the result of the same natural processes that have produced all of the other myriad life-forms in the world. Yet we feel different, and of course we are. Among all our remarkable attributes, the most striking is our possession of language.

В			
	английское слово	перевод/значение	
г			
1			
			 Текст
. A t	oruise is a collection of blood	that has settled in space be	10.10
in an	d is visible through the surfa	ce of the skin. It usually ap	etween muscle an opears reddish at f
in an r pur	d is visible through the surfa ple if very close to the surfac	ce of the skin. It usually ap	etween muscle an opears reddish at f to black and blue
in an r pur d fin	d is visible through the surfa ple if very close to the surfac ally to yellow-green. Most b	ce of the skin. It usually ap	etween muscle an opears reddish at f to black and blue
in and purjud find find find find find find find fin	d is visible through the surfa ple if very close to the surfac	ce of the skin. It usually ap	etween muscle an opears reddish at f to black and blue
in an r pur d fin	d is visible through the surfa ple if very close to the surfac ally to yellow-green. Most b	ce of the skin. It usually ap	etween muscle an opears reddish at f to black and blue
in an r pur d fin ew d	d is visible through the surfa ple if very close to the surfac ally to yellow-green. Most b	ce of the skin. It usually ap te of the skin) and changes ruises disappear naturally,	etween muscle an opears reddish at f to black and blue
in an r pur d fin ew d	d is visible through the surfact ple if very close to the surfact ally to yellow-green. Most be lays or weeks.	ce of the skin. It usually ap te of the skin) and changes ruises disappear naturally,	etween muscle and pears reddish at for to black and blue

английское слово	перевод/значение

Γ

generally protect the splee- endothelial system, a con-		ant element ond destroy
generally protect the splee-endothelial system, a conter, such as bacteria. Whe in the blood, the spleen ge	en from injury. It is an important and their penerally enlarges.	ne. The ribs and ant element of the destroy
generally protect the splee-endothelial system, a conter, such as bacteria. Whe in the blood, the spleen ge	en from injury. It is an important and their penerally enlarges.	ne. The ribs and ant element of the destroy
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generally protect the splee-endothelial system, a conter, such as bacteria. Whe in the blood, the spleen ge	en from injury. It is an important and their penerally enlarges.	ant element on the destroy
английское слово	перевод/значение	

20. Water has been the cradle of life throughout most of the planet's 4600- million-year history. The earliest forms of life - a simple collection of organic compounds - evolved in water and stayed in this nutrient soup that remained at a suitable temperature and never dried up. From these early beginnings, life on Earth evolved and diversified through the millennia.

	английское слово	перевод/значение	
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			 Текст
oughing. niles was	We slept a lot, and occasion not entirely clear. We ate	e reflexes, among them cry conally we smiled, but the national we grew. We crawled tinuous creation of more continuous	neaning of our fine and then we
A	ar development was a con-	imuous creation of more ex	•
100			——Б

	английское слово	перевод/значение	
	англинское слово	перевод/значение	\dashv
			-
hoı	ne dermis, the lower layer of the epidermis, the upper layer of blood vessels, perves	yer. The dermis contains str	ong, flexible fib
hoi etw nea	rs the epidermis, the upper lay york of blood vessels, nerves, th the dermis lies subcutaneo	yer. The dermis contains strusensory receptors, sebaceou	ue that supports ong, flexible fib us and sweat gla
hoi etw near sto	rs the epidermis, the upper layork of blood vessels, nerves,	yer. The dermis contains strusensory receptors, sebaceou	ue that supports ong, flexible fib us and sweat gla
honetw near sto	rs the epidermis, the upper lay york of blood vessels, nerves, th the dermis lies subcutaneo	yer. The dermis contains strusers sensory receptors, sebaceous tissue, a fatty layer that in	ue that supports ong, flexible fib us and sweat gla
honetw near sto	rs the epidermis, the upper lay york of blood vessels, nerves, th the dermis lies subcutaneoures energy.	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla
honetw near sto	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains strusers sensory receptors, sebaceous tissue, a fatty layer that in	ue that supports ong, flexible fib us and sweat gla
honetw near sto	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla
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honetw near sto	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla
honhonetwheel store	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla
honhonetwheel store	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla
honetw near sto	rs the epidermis, the upper lay ork of blood vessels, nerves, the the dermis lies subcutaneous ores energy. Прочитайте каждое предложение, н	yer. The dermis contains stresensory receptors, sebaceous us tissue, a fatty layer that in найдите и подчеркните ядро.	ue that supports ong, flexible fib us and sweat gla

23. Throughout history, people lived in fear of infectious diseases such as smallpox. Of the many diseases that plagued societies for centuries, smallpox was among the most serious and by the 17th century, it had become the most widespread infectious disease in the West. Numerous individuals contracted and died of that viral disease. Those who survived had become resistant to infection with the smallpox virus.

24. The arteries will carry blood away from the heart to smaller and smaller vessels, the capillaries. The veins will carry the oxygen-poor blood back to the heart. Veins return blood to the heart from all the organs of the body. The large veins run parallel to large arteries. Veins have several characteristics which differentiate them from their counterparts, the arteries. They are much more variable in location and distribution and are usually larger than the arteries. Veins have thinner, less muscular walls and many contain valves which prevent backflow of blood.

английское слово	ne	еревод/значение	

25. Many women are now getting early screenings for Down, which occurs in one in 800 babies and causes mental retardation, facial abnormalities, heart defects, and other problems. The early screening includes a blood test that detects abnormal levels of two proteins that suggest Down syndrome, and a relatively new ultrasound technique which looks for excess fluid accumulation at the back of the baby's neck. These are about 85 percent reliable in the prediction of the birth defect.

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mportant	form of diagnosis, and ma	ne examination of urine samples, any treatments used herbal medic	ine. Major
		anesthetics and conscious patient e 19 th century the era of painless	
rrived. T	The introduction of anesther	tics and the use of antiseptics dra isk of death from infections.	
caucca L			

английское слово	перевод/значение

r			
			Текст

27. People have always affected the natural environment. But the population growth along with emergence of industrial world economy during the last two centuries has increased the magnitude, complexity and the rate of these modifications. Pressures on the environment mounted during the 20th century. The world's population was expanding faster than ever. The growth of cities, industries, farming, and power generation is still seriously damaging the environment. The human activity is increasing the amount of green-house gases in the atmosphere. As a direct result of human activities, the Earth's climate is slowly but steadily getting warmer.

A Б Прочитайте каждое предложение, найдите и подчеркните ядро.

РАЗДЕЛ 2 ГЛАГОЛ В ПАССИВНОМ (СТРАДАТЕЛЬНОМ) ЗАЛОГЕ

2.1. Общие сведения

В английском языке, как и в русском, формы глагола в пассивном залоге используются для выражения действия, не совершаемого подлежащим, а направленного на него.

Например:

Blood is used for transport.

Кровь используется как транспортное средство.

Форм

глагола в пассивном залоге можно распознать по характерным признакам. Такая форма глагола обязательно включает:

- вспомогательный глагол *to be*, который согласуется в лице и числе с подлежащим и изменяется по временам;
- *смысловой глагол в 3-й форме* (т.е. причастие прошедшего времени *Past Participle*):

$be + V_3$

Гпагопы в

пассивном залоге (как и в активном залоге), имеющие формы простого (неопределенного) времени, обозначают регулярные, повторяющиеся действия; в формах продолженного времени - обозначают действия в процессе, а в перфектных формах - завершенные действия и могут относиться к настоящему, прошедшему и будущему времени (см. таблицу 2).

Таблица 2. Образование времен английского глагола в пассивном залоге

Farmer announce		Время	
Группы времен	настоящее	прошедшее	будущее
Простое (пеопределенное)	am is are V_3	was were } v ₃	$\left. egin{array}{c} ext{shall} \\ ext{will} \end{array} ight\} ext{ be } ext{V}_3$
Продолженное	$\left. egin{array}{l} \operatorname{am} \\ \operatorname{is} \\ \operatorname{are} \end{array} \right\} \operatorname{being} V_3$	$\left. egin{array}{l} was \\ were \end{array} \right\} \ { m being} \ { m V}_3$	_
Перфектное	$\left. \begin{array}{c} \text{have} \\ \text{has} \end{array} \right\} \text{ been } V_3$	had been V ₃	$\left. egin{array}{c} ext{shall} \\ ext{will} \end{array} ight\} ext{ have been V}_3$

Пример:

is influenced — настоящее простое
was being produced — прошедшее продолженное
have been made — настоящее перфектное

Вспомогательный глагол *to be* в составе сказуемого в пассивном залоге согласуется с подлежащим в лице и числе, а также изменяется по временам.

На русский язык предложения со сказуемыми в пассивном залоге могут переводиться несколькими способами, и нередко русское предложение отличается от английского по структуре, в частности, дополнение английского предложения становится подлежащим в русском варианте. Иными словами, английскому предложению со сказуемым в пассивном залоге рекомендуется подбирать русский эквивалент со сказуемым в активном залоге.

Например:

Some reactions are greatly affected by light.

Некоторые <u>реакции</u> в значительной степени подвержены воздействию света. (страдательный залог)

<u>Свет</u> оказывает сильное воздействие на протекание некоторых *реакций*. (действительный залог)

Упражнение 30

А Пользуясь таблицей 2, иллюстрирующей образование времен английского глагола в пассивном залоге, найдите сказуемое в каждом предложении и дайте его полную характеристику: лицо, число, время, группа.

Пример:

is assisted — 3-е лицо, ед. ч., наст. простое время, страдательный залог

Б Переведите предложения.

- 1. The surgeon is assisted by a large staff.
- 2. A date for the operation has been set.

- 3. The results of the operation will not be known for some weeks.
- 4. They have been warned of the possible complications.
- 5. The drug is being monitored for possible sideeffects.
- 6. Most of the ear is hidden from view within the skull.
- 7. The cells on the surface of the skin are constantly being replaced by new cells.
- 8. The first heart sound is followed after a short pause by the second.
- 9. Local inflammation is followed by various reactions in other parts of the body.
- 10. An upper respiratory infection of the nose and throat is usually followed by middle ear infections.
- 11. The lymph is continually being drained away from all over the body by a large number of small lymph vessels.
- 12. No good explanation of the mechanism of this phenomenon has ever been advanced.
- 13. This view is now being challenged.
- 14. A premature baby will often be placed in an incubator.
- 15. The cell's structures are housed in a gel-like substance, cytoplasm.
- 16. Oxygen is taken from outside and exchanged with carbon dioxide in the lungs.
- 17. For centuries, drugs have been made from animal and plant extracts.
- 18. Respiratory systems of various types are found in a wide variety of organisms.
- 19. Writing has been called »visible language».
- 20. The first steps towards scientific explanation of the world were taken in ancient Greece.
- 21. Enzymes and their products were first obtained from bacteria, yeast, and molds.
- 22. Pain relief by bark of the willow tree has been known since antiquity.
- 23. Over a million species have been classified from bacteria to blue whales.
- 24. The common cold is brought to us by any one of 200 viruses.
- 25. Possible links between the pollutants and high infant mortality in the first year of life are being investigated.
- 26. Through perspiration and other bodily functions, large amounts of water are steadily being lost from the body.
- 27. The epidermis is made up of cell layers that become flatter and tougher towards the surface.

Упражнение 31

А Соедините две части предложений, согласуя их по смыслу и грамматически, т.е. сказуемое (в правой колонке) должно соответствовать подлежащему (в левой колонке) в лице и числе.

1. The spinal column	a) is dependent upon a proper supply of
1. The spinar commit in	calcium and phosphorus to the bone tissue.
2. Bone formation	calcium and phosphorus to the bone tissue.
Z. Bone formation	b) and among and mound the appeals as for access
3. The inner core of bones	b) are arranged round the openings for eyes, nose and mouth.
5. The inner core of bones	nose and mouth.
4. The cranial bones of a newborn child	a) is made up of henry wortehouse
4. The cranial bones of a newborn child	c) is made up of bony vertebrae.
5. The 206 bony elements	d) are not completely joined.
5. The 200 bony elements	d) are not completely joined.
6. The ends of long bones	e) are covered by a thin layer of cartilage.
o. The ends of long bones	e) are covered by a tilli layer of car thage.
7. The bones of the face	f) is composed of hematopoietic tissue.
7. The bones of the face	1) is composed of hematopoletic tissue.
	g) are held in place by tough fibrous bands —
	ligaments.
	D

Переведите предложения.

1.	The spinal	column	is made u	p of	bony	vertebrae.	Позво	ночный	столб	cocmoum
<u>u</u> 3	костных н	<u> 10380нкс</u>	<u> 26.</u>							

2.	
	3.
	4.
	5.
	 6.
	7.
	/.

Упражнение 32

А Подчеркните сказуемое в каждом предложении и определите форму глагола, которой оно выражено: лицо, число, время и залог.

Б Переведите предложения.

- 1. Nasal bone makes up the bridge of the nose; the rest of the nose is made of cartilage.
- 2. The skeleton makes up about 18 per cent of the weight of the human body and is made up of a little more than 200 individual bones.
- 3. Living organisms are affected by and affect the nonliving world strongly.
- 4. During sleep, our bodies are being «repaired».
- 5. The lungs are housed in the chest cavity, a space that also includes the mediastinum.

- 6. The mechanisms that govern the transfer of substances across the placental barrier are complex and are still not entirely understood.
- 7. In some cases the upper respiratory tract is affected and catarrh of the mucous membranes begins.
- 8. An organ has a specific function but organs also function as part of a group which is called an organ system.
- 9. Fungi were once classified as simple plants but they are now placed in their own kingdom fungi.
- 10. Hormones are given off directly into the blood stream, which carries them throughout the body.
- 11. The attacks of the disease usually last several hours and are followed by coughing, with expulsion of the mucous plugs.
- 12. There are thousands of different viruses that have now been classified into different groups.
- 13. Gases that are pumped into the air by industry, cars and homes are gradually changing the balance of gases in the Earth's atmosphere.
- 14. Bones are living active organs that are constantly being destroyed and rebuilt at the same time.
- 15. Today, about a tenth of the Earth's surface is covered with ice, which stores three quarters of the fresh water on

Earth.

- 16. The lower back supports much of the body's weight and is involved in almost every physical activity.
- 17. The white blood cells detect and destroy cells which have been infected with viruses and which have become cancerous.
- 18. Each day, about two billion of the body's cells wear out and are replaced.
- 19. The body contains roughly two pounds of calcium, about 99 percent of which is locked into the bone.
- 20. Doctors have been performing heart transplants since 1967; the first transplant was performed in South Africa in that year.
- 21. Climate is changing. The implications of climate change are not yet being taken seriously enough.
- 22. Many stomach disorders result in or are accompanied by a loss of appetite.
- 23. Evolution results in the formation of new organisms that are better adapted to the environment.
- 24. Over 70 works have been ascribed to Hippocrates (around 400 BC) and he is traditionally regarded as «the father of medicine».

- 25. Herophilus (335-280 BC), the founder of anatomy, was followed and his observations were extended by his pupil Erasistratus (310-250 BC), who was the founder of physiology.
- 26. The simultaneous contraction of both auricles is followed by simultaneous contraction of both ventricles.
- 27. In the future, many of today's hereditary diseases will be eradicated through genetic engineering.
- 28. Because of inadequate blood flow the metabolic needs of cells are not being met and shock occurs.

Упражнение 33*

Прочтите предложения и скажите, форму какого залога - активного или пассивного - должен иметь глагол-сказуемое. Образуйте от приведенной в скобках неопределенной формы глагола (инфинитива) сказуемое, соответствующее контексту.

Пример:

- 1. The skin (to compose) of two main layers.
 - The skin is composed of two main layers.
- 2. The skeleton (to make up) about 18 per cent of the weight of the human body.

The skeleton makes up about 18 per cent of the weight of the human body.

1. The number of cells (io vary)______ in different parts of the body. 2. Pigment melanin (io *produce*) ______ by special cells in the epidermis. 3. Cells (io *discover*) _____ in the middle of the seventeenth century. 4. The smallest arteries (io branch)_______ into numerous tiny capillaries. 5. The entire bony system (io *pierce*)_____throughout by a rich network of vessels. 6. Nervous system (io *connect*) the brain to the rest of the body through nerves. 7. Most of the space in the upper right abdomen (io *iake up*)_____ by the liver. 8. The development of skeleton and its eventual size and density (io influence)_____ _____ by genetic factors.

9. In the small intestine the proce the	ss of digestion (to compMe)by
action of the bile.	
10. In recent times, genetic engin increasingly (io use) in the field of	eering of biotechnology.
	(ío require) only in ch vitaminfoods.
	(io occur) in inactive (not to influence) chemical
13. In vitamin A deficiency the e	
14. Vitamin B deficiency	(ío accompany) by poor growth,
dermatitis, anemia, kidney and ac	lrenal lesions.
15. Several coenzymes of vitamin	n(ío <i>exist</i>).
16. Little	(ío know) of the metabolic role of vitamin D.
17. The body of vitamin D	(ío require) only small amounts
which(exposure	ío provide) by a balanced diet and normal
to sunlight.	
18. Intestinal bacteria	(ío manufacture) vitamin K in the
body, and so deficiencies of this	vitamin rarely(ío resuU from) a
poor diet.	
Упражнение 34*	
выполняют функцию дополнен	а выделенные курсивом слова, которые ия, стали в предложениях подлежащими, а ствующую форму страдательного залога (при редлог <i>by</i>).

The teeth <u>crush</u> the food. =	The food <u>is</u> crushed by the teeth.	
The teeth crush the food and the saliva moistens it. The muscular walls of the stomach break it down still further, while the gastric lining secretes juices to continue the process. The liver and pancreas secrete juices into the upper section of the smaller intestine, and these convert the food so that the body can assimilate it. In the intestine, tiny projections cover the walls, and these absorb the nourishment from the food. Here the body absorbs most of the liquid from the undigested food, and excretes the remainder as waste.		
-	екст с учетом того, что пассивны могут передаваться на русский я	
ренировочного перевода к раздел	лу 2	Тексты д

Выполните задания в следующей последовательности:

Пример:

А Просмотрите мини-тексты и сформулируйте в одном предложении, о чем говорится в каждом из них.

Б Прочитайте каждое предложение в мини-тексте, найдите и подчеркните его ядро. Начните с глагола-сказуемого, который должен иметь *личную форму* в активном или пассивном залоге в настоящем, прошедшем или будущем времени (в простой, продолженной или перфектной форме).

В Опираясь на тему, контекст и структуру предложения, выпишите из
словаря подходящие значения всех незнакомых слов.
Г Переведите тексты.

Τεκcm 1. Mitochondria are associated with cell respiration and energy formation and storage. They have been called the powerhouse of the cell. Any cell type with a high degree of metabolic activity will contain prominent and numerous mitochondria.

английское слово	перевод/значение	

2. The nucleic acids, as constituents of living organisms, are comparable in importance to proteins. They are involved in the process of cell division and growth, they participate in the transmission of hereditary characters, and they are important constituents of viruses.

	английское слово	перевод/значение	
		<u>I</u>	
			Lower
anal	spinal cord is made up of nerv in the centre of the bones of the	ne spine. These bones pro	tect the spinal c
anal e th		ne spine. These bones pro	m the brain thro stect the spinal c
anal e th ebro	in the centre of the bones of the brain, the spinal cord is cove	ne spine. These bones propered by meninges and cust	m the brain thro stect the spinal c
anal e th ebro A	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones propered by meninges and cust	m the brain thro stect the spinal c
anal e th ebro A	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones propered by meninges and cust	m the brain thro stect the spinal c
anal e th ebro A	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain thro stect the spinal c
anal e th ebro	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain thro stect the spinal c
anal e th ebro	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain thro stect the spinal c
anal e th ebro	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain throstect the spinal chioned by
anal te th ebro A	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain thro stect the spinal c hioned by
anal ce th ebro	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain throstect the spinal chioned by
anal te th ebro A	in the centre of the bones of the brain, the spinal cord is cove ospinal fluid.	ne spine. These bones pro ered by meninges and cust дите и подчеркните ядро.	m the brain throstect the spinal chioned by

4. Fat is stored mostly in connective tissue fat cells, which together form adipose tissue, and is present also in many other cells, e.g., the liver and some types of

muscle cells. During normal section preparation, fat is dissolved out and thus appears as clear spaces in the cytoplasm.

		1	

5. X-rays are absorbed very differently by tissues with various density within body. Hard tissue like bone absorbs the radiation very strongly, blood vessels and muscles less so, while soft tissue such as cartilage is practically transparent.

- 1	английское слово	перевод/значение	
ł	англинское слово	перевод/значение	
Į			
A not	i vival drugg vyara first triad f	or treatment of AIDS but	Текст
	i-viral drugs were first tried fo		at best they dela
inev	vitable, and at worst they faile	d completely. Ten years a	at best they dela
inev s of		d completely. Ten years a	at best they dela
inev s of	vitable, and at worst they failed for drugs was developed - proteated	d completely. Ten years a ase inhibitors.	at best they dela
inevas of	vitable, and at worst they faile	d completely. Ten years a ase inhibitors.	at best they dela
inevas of	vitable, and at worst they failed for drugs was developed - proteated	d completely. Ten years a ase inhibitors.	at best they dela
inev s of	vitable, and at worst they failed for drugs was developed - proteated	d completely. Ten years a ase inhibitors.	at best they dela
inevas of	vitable, and at worst they faile farugs was developed - proteatory proteatory was developed - proteat	d completely. Ten years anse inhibitors. йдите и подчеркните ядро.	at best they dela
inevas of	vitable, and at worst they faile farugs was developed - proteatory proteatory was developed - proteat	d completely. Ten years anse inhibitors. йдите и подчеркните ядро.	at best they dela
inevas of	vitable, and at worst they faile farugs was developed - proteatory proteatory was developed - proteat	d completely. Ten years anse inhibitors. йдите и подчеркните ядро.	at best they dela
inevas of	vitable, and at worst they faile farugs was developed - proteatory proteatory was developed - proteat	d completely. Ten years anse inhibitors. йдите и подчеркните ядро.	at best they dela

tremendous amount of physical and chemical activity is going on inside the body at all times. Tissues are being broken down and are being replaced. Protoplasm is constantly being made. This vast quantity of work which is being done by the body generates energy.

	английское слово	перевод/значение	_
_			_
<u>r</u>			
			——Текст
ood and ters and	h consists of the fluid that leads is drained by the lymphatic leads ultimately returned to the composition to plasma, buttes.	c vessels. Lymph passes the bloodstream via the tho	through a series of oracic duct. It is
_			

gly an

 $\widehat{\mathbf{b}}~$ Прочитайте каждое предложение, найдите и подчеркните ядро.

В

английское слово	перевод/значение

_			Текст
od, b sorb	igestion comprises all the proce roken down into their chemical ed by the body. The food is take	l components by the action en in by means of the lips,	of enzymes ar
	d, lubricated with saliva and sw	rallowed in single bits.	
A			
Б П <u>э</u>	рочитайте каждое предложение, най	дите и подчеркните ядро.	
ъ			1
	английское слово	перевод/значение	
•			

11*. At the examination the elderly person is measured, weighed, examined, observed, and questioned about physical, functional, and behavioral changes. The skin is examined for dryness, wrinkles, thinning over the back of the hands, warts, lack of luster. Observations are made of dryness of the eyes, enlargement of the nose and ears relative to face size.

	английское слово	перевод/значение	
l			
<u> T</u>			
			Текст
13 Mo	st of the leukocytes, but not all	l are manufactured in hone	
	ythrocytes. They are formed in		_
	plood will rise or fall in respons		
	eukocytosis and a fall is leuko		
	leukopenia was usually fatal.	pella. Before the discovery	y of antibiotics,
SCVCIC	icukopema was usuany fatai.		
A			
БП	рочитайте каждое предложение, най	дите и подчеркните ядро.	
•			
	английское слово	перевод/значение	

Γ

			 Текст
at dis ther or nguag	e all other living organisms, entinguishes it from all other organisms are given in Latin. Lege of science at the time and for the said.	ganisms. The formal names atin is used because it was	s of bacteria and the classical
syste:	mic basis.		
Б пр	оочитайте каждое предложение, наі	йдите и подчеркните ядро.	
	английское слово	перевод/значение	
Î			

15 e fourth century BC. But it had been known to the Chinese at least 1,500 years earlier. They treated it with the leaves and stems of the *Ephedra* plant, and 4,000 years later ephedrine, which is found in species of Ephedra, was used as a treatment in the West.

английское слово	перевод/значение	
arly classification systems date fro early systems recognized only tw		ant and an

Б Прочитайте каждое предложение, найдите и подчеркните ядро.

		,	1
	английское слово	перевод/значение	
г			
<u> </u>			
17. 5	1' 1 1 . E1 11 (17	(40.1000) 6 1.1 6	Текст
	glish doctor Edward Jenner (17 nd was met with considerable s	· -	
	es since, the technique has save		
	orld Health Organization (WH		_
	wo million people died from the		
single o	case.		
Δ			
БП	очитайте каждое предложение, най	дите и подчеркните ядро.	
В.			
	-	,	1
	английское слово	перевод/значение	

английское слово	перевод/значение

Γ

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		T_{OIC}

18. Life is maintained by a huge number of chemical reactions, which are carried out inside cells and are linked in a complex way. These reactions make up the body's metabolism, which has two main aspects. The reactions that produce energy are known as catabolism. The reactions that build up body structures and energy stores are known as anabolism. These processes are controlled largely by hormones and are actually carried out by enzymes.

РАЗДЕЛ З МОДАЛЬНЫЕ ГЛАГОЛЫ

3.1. Общие сведения

Модальные глаголы - это особая группа глаголов: они не выражают действие, а обозначают возможность или необходимость его совершения.

В эту группу, в частности, входят следующие глаголы: can, may, must, should.

Модальный глагол	Зпачение
can	1. объективная возможность (т.е. «мочь», «быть в состоянии») 2. умение, способность (т.е. «уметь», «мочь»)
may	1. предположение, вероятность, возможность 2. разрешение
must	1. долженствование 2. запрет (в отрицательных предложениях)
should	1. долженствование в форме рекомендации, пожелания

Модальные глаголы имеют еще ряд особенностей:

- они не согласуются с подлежащим, т.е. не изменяются ни по лицам, ни по числам (не имеют окончания в 3-м лице единственного числа);
- некоторые из них (*must*, *should*) не имеют формы прошедшего;
- они не имеют форм будущего времени.
- 3.2. Модальные глаголы в сочетании со смысловым глаголом в активном и пассивном залоге в простом (неопределенном) времени

Так как сами модальные глаголы выражают не действие, а отношение к нему, за ними всегда следует смысловой глагол, выражающий действие, совершаемое подлежащим или направленное на него.

Если действие выполняется подлежащим, за модальным глаголом следует смысловой глагол в активной форме (без частицы to): модальный глагол + V

Пример: can suppress

Еспи

действие направлено на подлежащее, после модального глагола используется пассивная форма смыслового глагола (без частицы to): модальный глагол $+be+V_3$.

Пример: should be given

На русский

язык сказуемое с модальным глаголом переводится в зависимости от значения модального глагола и формы смыслового глагола.

Если за модальным глаголом следует смысловой глагол в активной форме, это означает, что действие *выполняется* подлежащим.

Например:

1. This drug can suppress inflammation.

Этот препарат может подавлять воспаление.

2. You may warm the ear drops to body temperature.

Вы можете нагреть (т.е. это разрешается) эти ушные капли до температуры тела.

Если после

модального глагола используется пассивная форма смыслового глагола, это означает, что действие *направлено* на подлежащее.

Например:

1. This medicine must be used regularly.

Это лекарство необходимо применять (должно применяться) регулярно.

These medicines should be given with care.

Эти лекарственные препараты <u>следует применять</u> с осторожностью.

Упражнение 35

А Найдите и подчеркните ядро каждого предложения, в котором сказуемое включает модальный глагол и смысловой глагол в активной или пассивной форме.

Б Переведите предложения.

- 1. Many of these drugs are toxic and should be given with care.
- 2. A new medicine must undergo extensive testing in the laboratory.
- 3. The cell may be best pictured as a self-sufficient chemical factory.
- 4. Blood disorders can vary greatly in their effects.
- 5. The body could not cope with an excess of blood sugar.
- 6. The liver, with its many complex functions, can be damaged by various disorders and diseases.
- 7. Spleen normal in size, consistency and position is soft and cannot be felt on abdominal examination.
- 8. The brain contains billions of neurons and each may influence or be influenced by hundreds of other neurons.
- 9. People with back trouble should not lift heavy weights.
- 10. This ointment should only be used externally.
- 11. Blood donors must meet certain requirements of age, health and weight.
- 12. The damage may be followed by painful spasm and inflammation.
- 13. Some vaccines provide lifelong protection; others must be re-administered periodically.
- 14. A person with irregular heart beat may be fitted with a pacemaker.
- 15. Many adults cannot digest lactose because of a deficiency of the enzyme lactase.
- 16. The eye muscles, or the nerves which supply them, may be affected by disorders which arise later in life.
- 17. Animals cannot manufacture their own food but must take it in from the outside in some way.
- 18. Organ such as the heart must be transplanted as soon after death of donor as possible; skin, corneas, bone and some blood fractions, however, can be stored.
- 19. There can be no end to physicians' education they must keep up with new developments.
- 20. Aspirin should not be given to children who have viral infections.
- 21. The shape of the brain cannot be determined from the shape of the skull.
- 22. Backache can result from bad posture, a soft bed or muscle strain, but it can also be caused by rheumatism, typhoid fever and osteoarthritis.

- 23. What characteristics must a good surgeon have? Surgeons need good eye-hand coordination, manual dexterity, and the physical stamina.
- 24. Anemia may be caused by a decrease in red cell production, an increase in red cell destruction, or a loss of blood.
- 25. Direct physical examination may be supplemented by various laboratory examinations.
- 26. Any change in symptom patterns, such as increase in attack frequency or intensity, should be viewed as serious.
- 27. These reactions can affect almost any cell or tissue and cause a variety of disorders.
- 28. Twenty amino acids are necessary for protein synthesis. Eleven can be synthesized by the human body; nine must be obtained from the diet.
- 29. Mouth-to-mouth resuscitation should be used in almost all circumstances except in severe injury to the face and mouth.
- 30. Energy-rich nutrients cannot be used directly for muscle contraction they must be first converted into ATP (adenosine triphosphate).

Упражнение 36

Проанализируйте предложения и вставьте необходимый по смыслу модальный глагол из приведенного ниже списка (цифра в скобках указывает, сколько раз должен быть использован глагол).

	can (3), cannot (4), may (5), must (4), should (1)
_	multiply hundreds of times.
4	2. Each side of the heart perform different work.
1	3. With age calcium loss be entirely prevented.
4	4. A wide variety of other systems be damaged by the rheumatoid process.
4	5. All body cells be constantly supplied with oxygen.
(6. Healthy bonesbe built without calcium salts.
•	7. These drugs improve the course of the disease.
8	8. Most viruses be seen only with electron microscope.
(9. The heart be called a dual pump.
	10. Lifeexist in the absence of water.
l	11. Like any other tissue in the body, the heart muscle receive oxygen-rich blood.
-	12. Heavy physical exertion increase the rate of blood flow to the muscles.
-	13. The blood in the capillaries be continually replaced with fresh blood.

14. An abnormal heart valve cause malfunction.
15. Many foodscause allergic reactions.
16. In an anemic person, the blood provide the tissues with enough
oxygen.
17. Patientscarefully follow their doctor's advice on health care and check
ups.
2.24.34

3.3*. Модальные глаголы в сочетании со смысловым глаголом в перфектной форме (активный залог)

Если за модальным глаголом следует смысловой глагол в перфектной форме (have + V3), то глагол-сказуемое выражает действие, которое могло бы произойти или вероятно произошло в прошлом. Иными словами, сочетание модального глагола со смысловым глаголом в перфектной форме передает различные оттенки предположения относительно действия, произошедшего в прошлом.

$must + have V_3$	должно быть, наверняка	
$\operatorname{can} + \operatorname{have} \operatorname{V}_3$	вероятно	
may + have V ₃	возможно	
should + have V ₃	следовало бы] Иногда

модальный глагол сам стоит в форме прошедшего времени (might, could) и выражает еще меньшую степень вероятности.

Упражнение 37

А Найдите сказуемое, выраженное модальным глаголом в сочетании со смысловым глаголом в перфектной форме.

Б Переведите предложения.

- 1. The ancient Romans may have used soap 3,000 years ago.
- 2. Microorganisms could have survived a journey from Mars to Earth.
- 3. Early in its history our solar system could have included many worlds with liquid water, the essential ingredient for

life.

- 4. The first epidemic in the Roman Empire could have been smallpox and it was devastating.
- 5. Only one source of energy nuclear energy could have kept the sun shining that long 4.600.000.000 years.
- 6. The earliest Chinese description of bubonic plague dates back from AD 610. Outbreaks of bubonic plague must have depended on the prior dispersal of the black rat and its fleas.

- 7. According to some scientists, the cause of extinction of prehistoric animals may have been different for each group of animals.
- 8. Now hot and dry, Venus may once have had oceans as vast and deep as Earth's.
- 9. One of the most active areas during REM (rapid eye movement) sleep is the limbic system, which controls our emotions. According to research REM may have evolved for physiological reasons.

Тексты для тренировочного перевода к разделу 3 *Выполните задания в следующей последовательности:*

А Просмотрите мини-тексты и сформулируйте в одном предложении, о чем говорится в каждом из них.

Б Прочитайте каждое предложение в мини-тексте, найдите и подчеркните его ядро. Начните с глагола-сказуемого, который должен иметь *личную* форму или включать модальный глагол.

В Опираясь на тему, контекст и структуру предложения, выпишите из словаря подходящие значения всех незнакомых слов.

Г Переведите тексты.

Teκcm 1. Plasma can be given to anyone, regardless of blood type. It can be dried and transported almost anywhere, ready for immediate use after addition of the appropriate fluid.

approp	oriate fluid.		
A			
Б Про	читайте каждое предложение	, найдите и подчеркните	ядро.
В			
	aurautheres arens	пополот /анананиа	
	англииское слово	перевод/значение	
	читайте каждое предложение	перевод/значение	ядро

Г		_
		_
		– _Текст

2. The bony structures must be regarded as active store-houses of mineral matter. The body can draw upon bones for constituents like lime and phosphates. Under certain conditions the bones indeed may give up much of their mineral matter. They become soft and can no longer function as an effective framework.

	английское слово	перевод/значение	_
	ase often affects anatomy, and		
orn ity	ase often affects anatomy, and nal heart valve can cause malfu as a barrier. This may lead to it produce pressure that ultimate	nction. Trauma to the ski nfection. Cancer can dire	cause disease. An may damage
orm ity ue o	nal heart valve can cause malfu as a barrier. This may lead to i	nction. Trauma to the ski nfection. Cancer can dire tely destroys it.	cause disease. An may damage
orm ity ue c	nal heart valve can cause malfu as a barrier. This may lead to in or produce pressure that ultimate	nction. Trauma to the ski nfection. Cancer can dire tely destroys it.	cause disease. An may damage
orm ity ue o	nal heart valve can cause malfu as a barrier. This may lead to in or produce pressure that ultimate рочитайте каждое предложение, най	nction. Trauma to the skinfection. Cancer can dire tely destroys it.	cause disease. An may damage
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orm ity ue o	nal heart valve can cause malfu as a barrier. This may lead to in or produce pressure that ultimate рочитайте каждое предложение, най	nction. Trauma to the skinfection. Cancer can dire tely destroys it.	cause disease. An may damage

4. By itself, a virus is a lifeless particle that cannot reproduce. But inside a living cell, a virus becomes an active organism that can multiply hundreds of times. Most viruses can be seen only with electron microscope.

	английское слово	перевод/значение	
			Γ
—			
_			Тен
	_	n the inside or the outside. From t	
e bra	in can be damaged by tumours	s, haemorrhages and clots. Brain t	umo
emo	rrhages have direct effects; for	example, tumours can invade oth	er p
e bra	in.	•	•
Α			
<u>A</u>			
БП	рочитайте каждое предложение, най	ідите и подчеркните ядро.	
В			
	английское слово	перевод/значение	
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The	ts of metabolism from the bloc	ofold. The kidney must remove the od, which are constantly being for	ne e me
The	ts of metabolism from the bloc	ofold. The kidney must remove the	ne e
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The roduc	ts of metabolism from the bloc The kidney must actively reabs	ofold. The kidney must remove the od, which are constantly being for sorb from the tubular filtrate those	ne e me

	английское слово	перевод/значение	
			 Текст
Food	l may be looked upon as the «f	fuel of life The body may	
	i iliay oc looked upoli as tile «i		
achir			
	e. It converts the energy in foo	od into the energy of the bo	dy. This body
nergy	e. It converts the energy in focisis utilized in one of three ways	od into the energy of the bos. It may be used as heat, as	dy. This body
nergy	e. It converts the energy in foo	od into the energy of the bos. It may be used as heat, as	dy. This body
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8. Allergy is a body reaction that occurs in persons sensitive to certain substances. A substance that is harmless to a non-allergic person may cause mild to extremely severe symptoms in an allergic person. A person can develop an allergy at any time, but in most cases the first symptoms appear during childhood. Many foods may cause allergic reactions.

	английское слово	перевод/значение	
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			Текст 9
_	can enter a body in a numb	•	
	oloodstream through a cut	• •	
	n, or in water. Often the illr		
	aisan that it much all and a ta	exin), and this is especially	true of bacteria

	английское слово	перевод/значение	
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org	nes are an integral part of the canism's environment. For example, it is the canonical transfer of the canonical transfer	mple, hormones that circula	ate in the blood
org ke tl mse	<u> </u>	mple, hormones that circulatence the cell's activity. The	can be affected ate in the blood e flow of hormo
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11. The severity of the 1918 pandemic could either have been due to the virus itself or to the unusual circumstances of the time. Europe had been at war for four years. Many were stressed, exhausted, and poorly nourished. Troops lived in extremely unhygienic conditions, and large groups of them moved rapidly from place to place. Those conditions encouraged the spread of airborne viruses like flu.

	английское слово	перевод/значение	-
	bodies cannot retain water-so	_	
books of store	bodies cannot retain water-so dy excretes excessive intakes or months in various organs ar ed in fatty tissue. Therefore, on each vitamin A and vitamin D a	readily, but can retain smand tissues. Fat-soluble vita laily intake of these vitami	fat-soluble vitanull amounts for mins, by contrastins is not as cruc
ks c store mu	dy excretes excessive intakes or months in various organs and ed in fatty tissue. Therefore, of	readily, but can retain smand tissues. Fat-soluble vitalaily intake of these vitaminatually can be detrimental	fat-soluble vitanull amounts for mins, by contrastins is not as crucil to health.
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13. The body temperature of mammals must lie within the range 35 $^{\circ}$ C to 40 $^{\circ}$ C and they must breathe an atmosphere of about 21 per cent oxygen with about 0.03 per cent carbon dioxide at a pressure around 760 mm of mercury. Temporary deviations from these conditions can be tolerated: there are mechanisms of temperature regulation and ventilation rate.

	английское слово	перевод/значение	
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			Tonom
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He		and tor cavaral waake Riit	unconscious pati
	althy people can go without fo		-
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uld ch	be fed. He can receive his foo goes through his nose and into	d via a naso-gastric tube, his stomach. The nurses	a thin plastic tube can give fluids do
uld ch tub	be fed. He can receive his foo goes through his nose and into be several times a day. In intrav	d via a naso-gastric tube, his stomach. The nurses venous feeding food must	a thin plastic tube can give fluids do be digested
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uld ch tub fici no Π	be fed. He can receive his foo goes through his nose and into be several times a day. In intravally and then given to the patie acids, and tiny particles of fat.	d via a naso-gastric tube, his stomach. The nurses denous feeding food must ent. It is therefore simply а билите и подчеркните ядро.	a thin plastic tube can give fluids do be digested

15. Pain in the abdomen may be caused by a variety of conditions. Within the abdomen there are vital organs of the body which can be the source of pain. In

A			Б
Прочи	тайте каждое предложение, н	найдите и подчеркните яд	po.
	английское слово	перевод/значение	
_			
	e patient who is taking nitrogly	cerin should keep the media	
	e patient who is taking nitrogly es. It should be kept in a dark g	-	cation at hand at
all tim The dr	es. It should be kept in a dark g rug does not cause addiction and	lass container, free from he d there is no limit to the nur	cation at hand at eat and moisture.
all tim The dr aken i	es. It should be kept in a dark g rug does not cause addiction and in a 24-hour period; however, n	lass container, free from he d there is no limit to the nur	cation at hand at eat and moisture.
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all tim The dr taken i minute	es. It should be kept in a dark grug does not cause addiction and a 24-hour period; however, ne intervals during an attack.	lass container, free from he there is no limit to the nur o more than three tablets sh дите и подчеркните ядро. перевод/значение	cation at hand at at and moisture. mber that may be nould be taken at 5

РАЗДЕЛ 4 ГЛАГОЛ В ПОВЕЛИТЕЛЬНОМ НАКЛОНЕНИИ (ПРЕДЛОЖЕНИЯ БЕЗ ПОДЛЕЖАЩЕГО)

4.1. Общие сведения

Сказуемое английского предложения может быть выражено глаголом в изъявительном, повелительном илисослагательном наклонении. Грамматическая категория наклонения используется для того, чтобы говорящий мог выразить, как с его точки зрения действие, обозначенное глаголом-сказуемым, соотносится с действительностью.

В разделах 1 и 2 рассматривались формы глагола в *изъявительном* наклонении, выражающие *реальное действие* в настоящем, прошедшем или будущем времени.

Формой глагола в повелительном наклонении говорящий передает побуждение, приказание, приглашение к действию. Такие предложения начинаются с глаголасказуемого, а подлежащее, как правило, в них отсутствует. Употребление глагола в повелительном наклонении нередко встречается в текстах аннотаций к лекарственным препаратам, правилах, указаниях и рекомендациях.

Пример:

Rub this medicine gently into your skin.

Don't use lifts in fire.

При

переводе данной грамматической формы на русский язык, как правило, необходим глагол в повелительном наклонении.

Например:

Rub this medicine gently into your skin.

Мягко вотрите лекарство в кожу.

Don't use lifts in fire.

В случае пожара не пользуйтесь лифтом.

Упражнение 38

А В следующих предложениях найдите и подчеркните сказуемое, выраженное глаголом в повелительном наклонении.

Б Переведите предложения.

I. These Basic Health Habits Are the Foundation of Lifelong Health and Well-being

- 1. Be physically active every day.
- 2. Keep your brain active.
- 3. Maintain a healthful body weight.
- 4. Be tobacco-free.
- 5. Avoid drugs and excess alcohol.
- 6. Rest your brain get at least six hours sleep a night.
- 7. Walk for health walk as often as possible.
- 8. Don't worry too much. Manage stress.
- 9. Take care of your teeth.
- 10. Avoid exposure to radiation.
- 11. Eat right eat healthily. Eat a variety of foods; eat plenty of fruit and vegetables.
- 12. Avoid too much fat and sugar.
- 13. Limit your exposure to strong sun.
- 14. Do something enjoyable every day.
- II. General Lab Safety Rules
- 1. Work in the lab only in the presence of an instructor.
- 2. Walk! Do not run in the lab.
- 3. Do not eat, drink beverages, or chew gum in the lab.
- 4. Never taste chemicals.
- 5. Avoid contact with chemicals. Wear safety glasses whenever necessary.
- 6. Clean and dry your lab table.
- 7. Never rely on the shape, size or colour of the bottle. Read the label.
- 8. Always wash hands after experiments.
- 9. Report any accident (spill, breakage, etc.) or injury (cut, burn, etc.) to the instructor immediately.
- 10. Carefully follow all instructions.

Упражнение 39

А Используя приведенные ниже слова, составьте рекомендации для людей, желающих вести здоровый образ жизни. Начните предложения с повелительной формы глагола.

Б Переведите предложения.

Simple Ways to Live a Healthy Lifestyle

1. exercise/regular/get *Get regular exercise*.

Регулярно выполняйте физические упражнения. 2. active/keep/physically
weight/lose/excess
smoke/not/do 4.
rest/get/enough 5.
hours/night/sleep/7 to 8/each
a/plant/a/pet/and/a/pet/plant - because plants and pets can be very healing.
Упражнение 40
А Составьте правила поведения при пожаре. Начните предложения с повелительной формы глагола, выбрав соответствующее по смыслу слово из предложенного списка.
Б Переведите предложения.
close, do not, leave, move, shut, stay, tell If You See
a Fire 1 calm, don't panic.
2 the door to the room with a fire.
3 other people about the fire as soon as possible.
4 the building immediately.

5	run. Walk quickly but calmly.
5	near the floor. The best air is at floor level.
7.	all doors behind you.

ТЕКСТЫ ДЛЯ КОНТРОЛЬНОГО ПЕРЕВОДА К РАЗДЕЛУ 1

- 1. All living things with a blood circulation system have blood pressure, which varies considerably at different times. In healthy people, blood pressure varies throughout the day and depends on factors such as physical activity and stress. There is a lot of difference between the blood pressure levels of children and of older people. Blood pressure rises considerably under stress situations. Environmental stress, food habits, lack of exercise and in general city life, are making a deep impact on human life, and as a result, for many, a rise in blood pressure is inevitable. In people who have high blood pressure, the heart always pumps with greater force than necessary, and blood pressure is never within the normal range.
- 2. In every drop of blood there are 250 million red blood cells. There are about 5 million red blood cells in each cubic millimeter of blood in the average adult man and 4.4 million per cubic millimeter in the average adult woman. There are far fewer white blood cells than red blood cells. In the blood stream there is only one white cell for approximately 700 red cells. There are normally about 8,000 white corpuscles in every cubic millimeter of blood. There are two main varieties: polymorphs and lymphocytes. Lymphocytes have a large nucleus that fills most of the cell. There are two types of lymphocytes, both of which originate before birth in bone marrow. Only mature lymphocytes carry out immune responses. During maturation process many different types of B and T lymphocytes develop, perhaps many millions.
- 3. The liver is a solid organ of dark-brown colour and the largest gland in the human body. It occupies the right-hand upper position of the abdominal cavity. About fourfifths of the organ lies to the right of the middle line of the body. The liver rests upon various abdominal organs, the right kidney and suprarenal gland, the large intestine, the duodenum, and the stomach. Liver tissue consists of thousands of tiny lobules. The liver has many functions vital to the body. Of the liver's many digestive functions the production of bile and storage of glucose are

particularly important. The bile not only performs important functions in the process of digestion, but also serves as a vehicle for the excretion of waste products from the body. The liver has a double blood supply. The portal vein brings venous blood from the stomach, the intestines, and the spleen. The hepatic artery brings arterial blood. These two bring about 40 ounces (1,200 milliliters) of blood to the liver every minute.

- 4. The two lungs are a pair of elastic organs of respiration. They supply the body with oxygen and eliminate carbon dioxide from the blood. The lungs extend from the collarbone to the diaphragm in the thoracic cavity. They normally lie free within the pleural cavities of the thorax except for the attachment by their roots to the trachea and the heart by the bronchi and pulmonary blood vessels respectively. The two lungs are not quite mirror images of each other. The right lung, which is the slightly larger of the two, has three lobes (upper, middle and lower) and the left lung has only two lobes (upper and lower). Air enters each lung through a large tube, or bronchus, which divides and subdivides into a network of countless tubules, bronchioles. These tiny tubules lead to alveoli. The wall of an alveolus is a single layer of a cell. Alveoli are the sites of gas exchange in the lungs. The average adult's lungs contain about 600 million of these spongy, air-filled sacs that are surrounded by capillaries. We inspire more than 25,000 times a day and during this time inhale around 16 kg of air.
- 5. G. Mendel (1822-1884), an Austrian monk, studied and worked out the basic Laws of heredity. For eight years the focus of his attention was the garden pea, which has a number of special features that make it ideal for studies which he carried out. Mendel built a hypothesis on the basis of his huge number of results. When he carried out experiments with pea plants he noticed that some characteristics were dominant over others, e.g. tallness is dominant over shortness in these plants. Although Mendel did his work in the 19th century, its significance became clear only in the 20th. The study of genetics in the 20th century established that there are dominant and recessive genes for many characteristics, and this is particularly important in some diseases.
- 6. The skin, which covers the entire surface of the body and forms an essential barrier between the body and its surroundings, is the body's largest organ. It provides protection against injury, infection by microorganisms, and damage by harmful rays in sunlight. The two principal layers of the skin are the dermis with a rich network of blood vessels and nerves, and the epidermis, a protective outer layer without blood vessels. The skin is more than a waterproof jacket for the body. It is an active and versatile organ of sensation and of adaptation to the environment. On average, 12 feet of nerves, 3 feet of blood vessels, 10 hair follicles, 100 sweat glands and hundreds of nerve endings are in each square centimeter of skin. The average woman has about 17 square feet of skin and average man has 20 square feet. In an average adult the skin weighs about 5 kg.

- 7. In 1928 a British microbiologist, Frederick Griffith, was developing a vaccine against pneumonia. He was working with two different strains of the causative bacterium *Streptococcus pneumoniae*. One strain was pathogenic, the other was nonpathogenic. When Griffith injected dead cells of the pathogenic strain of *S.pneumoniae* into a mouse, the mouse survived, because the dead bacteria had not established an infection in the mouse. However, when he injected a mouse with living cells of the nonpathogenic strain together with dead bacteria (neither of them could cause disease alone) the mouse died. Griffith reasoned that genetic material from the dead bacteria had somehow entered the living nonpathogens and transformed them into the pathogenic bacteria, Griffith had, in fact, observed the movement of hereditary material from one cell to another. The chemical that transmitted the hereditary information leaked from the dead pathogens and entered the living bacteria and caused the transformation of a nonpathogen to a pathogen. Then other scientists investigated the specific substance. They were looking for the molecular basis of heredity. However, it remained a puzzle until 1944.
- 8. Scientific pathology really began in 1761 with the publication of Morgagni's collection of case histories in which doctors related patients' symptoms to disorders of particular organs. Under the influence of scientists, such as Hunter, pathology relied more and more on facts and less on philosophical speculations. The flood of pathological discovery in the 19th century came largely from microscopical examination. Now pathology dealt with smaller and smaller units from a vague concept of the whole person to the study of particular organs, then tissues, then cells, and finally, molecules. Pathologists are now studying disturbances of chemical reactions which determine the processes of disease. In the past, postmortem studies were the only possible way of learning about the nature of disease, and they are still very important for both research and teaching. But they reveal disease at a state where it is beyond the help of medicine. Thus, in the past pathologists described in detail what had gone wrong with a patient's anatomy, but little about his physiology.

ТЕКСТЫ ДЛЯ КОНТРОЛЬНОГО ПЕРЕВОДА К РАЗДЕЛУ 2

- 1. Thromboplastin is widely distributed in the body and is held securely in the tissues and the platelets of the blood. It is the «trigger» mechanism which initiates the process of coagulation. In injury, thromboplastin is liberated from the tissues and the coagulation process begins promptly. Excessive bleeding due to a deficiency of thromboplastin is observed in patients with hemophilia.
- 2. Senile erythrocytes are phagocytosed and broken down in the reticular connective tissue of the bone marrow and the spleen. Iron from the hemoglobin is temporarily stored in the phagocytes of the reticular connective tissue as hemosiderin, which in turn is broken down to ferritin, a molecular combination of six atoms of iron. Ferritin is carried through the blood stream to the bone marrow. Here it is taken up by the reticular cells which eventually release it to the erythroblasts.
- 3. From the stomach, the chyme passes into the small intestine through the pyloric sphincter. Much material is still undigested. Proteins have not been completely broken down, starches are still being converted into simple sugars, and fats remain in large globules. In the small intestine the process of digestion is completed by the action of the bile, which is secreted by the liver and released by the gall bladder, and by the action of various enzymes.
- 4. The body is continuously exposed to damage by viruses, bacteria, toxins and chemicals, and foreign proteins of plant origin. These insults are received by the skin, the respiratory system, and the digestive system. The skin suffers far more injuries than the rest of the body. This organ is looked upon as an important means that protects the tissues against mechanical, chemical and bacterial injuries. For the protection against mechanical injury, the skin develops thickness, as on the sole of the foot, and on the palms of the hand.
- 5. The thymus gland was given its name by Galen in the second century AD because of its resemblance to a bunch of thyme flowers. The thymus gland is now established as a vital part of the immunological system. Until 1960 the function of the thymus was completely unknown. Certain relationships have been found between the thymus and the transmissibility of leukemia in experimental animals. A great deal has been written about the relationship of thymus enlargement to sudden death in infants, particularly during anesthesia.
- 6. The heart wall is composed of three layers of tissue. The inside of the heart is lined with a smooth membrane, the endocardium, and the whole structure is enclosed in a loose fibrous bag, the pericardium. The thick muscular wall essential to normal action of the heart is called the myocardium that receives its blood supply from the two large coronary arteries and their branches. The outside of the

heart and the inside of the pericardium are covered with a slippery membrane, which prevents friction during the heart contraction.

- 7. The strong inner framework of the body is formed by the skeletal system. The skeletal system, which is made up of separate bones that are linked together at joints, not only gives the body its shape, but also provides anchorage for the muscles that move it. It supports and protects vital organs, such as the brain, the heart, and the lungs. Bones themselves are rigid, but they are linked by joints that give the skeleton a great deal of flexibility. Before birth, the skeleton is made mostly of cartilage, and as a result is less rigid.
- 8. The skull, which is the most complex part of the skeleton, shapes the head and face, protects the brain, and houses the special sense organs. It is made up of 22 separate bones, 21 of which are locked together by immovable joints. The only movable skull bone is the mandible, or lower jaw. Skull bones are divided into two sets. The cranial bones form the upper part, or cranium, which surrounds, supports, and protects the brain and the organs of hearing. The facial bones form the framework of the face and jaw, and provide attachment sites for the muscles that produce facial expressions.
- 9. Ancient Greece was an immensely fertile producer of philosophers who pondered such fundamental questions as the meaning and origins of life. Some of their theories were way ahead of their time. Perhaps the most famous Greek philosopher was Aristotle (384-322 BC). He devised hundreds of explanations about the natural world, space, the nature of matter, and forces and motion. Unfortunately, many of his ideas were wrong but were taught to students of «natural philosophy» for hundreds of years, and were challenged only during the Renaissance period in the 16th and 17th centuries.
- 10. Medicine and pharmacology are two sciences which have changed a great deal in recent times. Long ago, medical care was given by doctors, pharmacists, and even barbers! All of them experimented freely on their patients, who often died as a result. Early pharmacists depended on plant remedies which had been developed over the centuries. One popular remedy during the Middle Ages was poppy juice, which contains opium (a narcotic). Other remedies were animal fat and even crocodile blood, which was considered a «cure» for poor eyesight. Other common practices were dangerous and sometimes fatal. People whose diseases were «incurable» often looked for help from the spirit world, astrology, and magic. Astrology, which was valued as a method of diagnosis, was even taught in many medical schools. Medicine has become a reliable science only in recent times. Even now, however, it still involves a certain amount of experimentation.

ТЕКСТЫ ДЛЯ КОНТРОЛЬНОГО ПЕРЕВОДА К РАЗДЕЛУ 3

- 1. Artificial respiration can be given with no equipment. A method of artificial respiration which has now found favour is known as «mouth-to-mouth respiration». The principle of this method is as follows: air from the resuscitator's lungs is breathed into the patient's lungs. The patient's nostrils should be closed by the resuscitator's hand and the patient's head should be held back. The resuscitator must also guard against the use of excessive force: this might propel sea water or vomit back into the patient's lungs.
- 2. Food is one of the sources of the raw materials that cells must obtain from the external environment, but it is not always in a form that cells can use. Food is taken in at the mouth and broken down by physical and chemical means. Then it can pass through the walls of the alimentary canal into the blood. Substances that cannot be used by the cells are regarded as waste materials. The accumulation of these substances will upset the fine balance which must be maintained between chemical substances in the internal environment.
- 3. Heart attack is diagnosed most readily by means of an electrocardiograph. This machine records patterns of electrical activity of the heart and can detect changes in activity that are associated specifically with heart attack. In many hospitals heartattack victims are routinely admitted to coronary care units. In these units the electrical rhythm of the heart is monitored continuously, and arrhythmias (abnormal rhythms) can be treated promptly. In case of low heartbeat rate, a temporary pacemaker may help. The pacemaker is inserted into a vein and moved to the right ventricle. There its electrical impulses stimulate the heart and it beats more quickly.
- 4. Each organ system of the body may be attacked by a number of diseases. These diseases have certain things in common. Some symptoms and signs may be particular to the individual organ. The central nervous system may be attacked by the same diseases as other organs. The nervous system controls the working of the body in many ways, and diseases may affect not only a part of the system but also another part of the body. The various organs of the nervous system may be affected by inflammatory processes, degenerative disease, and injury. These are referred to as neurologic disorders and may be manifested by paralysis, sensory malfunction and convulsive seizures.
- 5. There are 15 vitamins, and most of them must be supplied by food. Vitamins were formerly extracted from natural sources, but now the majority is made by synthetic methods. Vitamins are needed in very small amounts by the body. But lack of vitamins can cause a deficiency disease. The exact vitamin requirements for good health often are not known with accuracy; they vary with age, weight, sex, and state of health. Vitamins should not be used as «tonics». The indiscriminate

use of vitamin preparations may sometimes lead to overdosage, a problem that has arisen in resent years. For example, overdosage of vitamins A, D, or K may result in a serious disease.

- 6. The muscular wall, or septum, which runs down the centre of the heart, divides it into two sides: the right heart and the left heart. There is no connection between the two sides. Each side must perform different work. Thus, the heart may be called a dual pump. It must receive the venous blood and send it into the lungs for fresh oxygen. This is done by the right side of the heart. The left side must receive blood from the lungs and pump it out into the body. The left side of the heart is stronger and thicker than is the right. The halves of the heart are alike: each of them is composed of two chambers, an auricle and a ventricle. Between these chambers are placed valves which ensure the passage of blood only in one direction, namely, from the auricle to the ventricle.
- 7. The first epidemic in the Roman Empire could have been smallpox which must have killed one-third of the Rome's population. Another epidemic in 251 AD may have been measles and was equally devastating. There were about 5,000 deaths per day in Rome at its peak. Rome's rural population may have been even more affected. This die-off may have led to depopulation of agricultural lands. After a massive epidemic, which occurred in 542-543 AD probably due to bubonic plaque, Rome's armies fell to the Moslem armies, and the Dark Age of Europe began. Thus, infectious diseases may have contributed to the fall of the Roman Empire.

КЛЮЧИ К НЕКОТОРЫМ УПРАЖНЕНИЯМ

Упражнение 2

I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
II	is	are	is	is	is	are	is	is	is	is	are	is	is	is	is	are	is	is
III	b	e	р	k	q	О	a	1	n	С	m	f	d	r	h	i	g	j

Упражнение 10

1 - are; 2 - secrete; 3 - are; 4 - consist of/move; 5 - enters; 6 - divide; 7 - consist; 8 - has; 9 - vary; 10 - are; 11 - is; 12 - receive; 13 - are; 14 - produce; 15 - is; 16 - grow; 17 - are; 18 - produces; 19 - are; 20 - is; 21 - filter; 22 - receives.

Упражнение 12

1 - encloses; 2 - vary; 3 - protects; 4 - occupy; 5 - complete; 6 - encodes;

7 - distribute; 8 - surrounds/strengthens; 9 - carry out; 10 - innervate; 11 - cause.

Упражнение 16

1 - nerve; 2 - cell; 3 - energy; 4 - animal; 5 - sweat; 6 - taste; 7 - ear;

8 - sense; 9 - blood; 10 - body.

Упражнение 26

1 - live; 2 - is rising; 3 - deals; 4 - were; 5 - secrete; 6 - varies; 7 - has been burning; 8 - have used/have been using; 9 - have been performing.

Упражнение 31

1 - varies; 2 - is produced; 3 - were discovered; 4 - branch; 5 - is pierced; 6 - connects; 7 - is taken up; 8 - is influenced; 9 - is completed; 10 - is used; 11 - are required; is; 12 - occur/do not influence; 13 - are affected; 14 - is accompanied; 15 - exist; 16 - is known; 17 - requires/is provided; 18 - manufacture/ result from.

Упражнение 36

1 - can; 2 - must; 3 - cannot; 4 - may; 5 - must; 6 - cannot; 7 - may; 8 - can; 9 - may; 10 - cannot; 11 - must; 12 - may; 13 - must; 14 - can; 15 - may; 16 - cannot; 17 - should.

Упражнение 39

2 - Keep physically active. 3 - Lose excess weight. 4 - Do not smoke. 5 - Get enough rest. 6 - Sleep 7 to 8 hours each night. 7 - Eat a healthy diet. 8 - Plant a plant and pet a pet - because plants and pets can be very healing.

Упражнение 40

- Stay calm. 2 - Close the door to the room with a fire. 3 - Tell other people about the fire as soon as possible. 4 - Leave the building immediately. 5 - Do not run. 6 - Move near the floor. 7 - Shut all doors behind you.