PHẦN BA



DẠY VÀ HỌC TIẾNG ANH Y KHOA

(TRAU ĐỔI KỲ NĂNG ĐỌC HIỂU - NGHE -NÓI TIẾNG ANH TRONG Y KHOA)

Unit 1: Các ngăn trong cơ thể

Unit 2: Các ngườn năng lượng

Unit 3: Giải phẫu tổng quát phần thân

Unit 4: Biểu mô

Unit 5: Nghiên cứu cấu trúc tế bào

Unit 6: Tim

Unit 7: Hệ thấn kinh

Unit 8: Tóm tắt và các bài tặp mở rộng

UNIT 1:

THE COMPARTMENTS OF THE BODY

CÁC NGĂN TRONG CƠ THỂ

I. READING AND COMPREHENSION

The body has three compartments. The first of these consists of active tissue, which is also known as well mass. This does most of the chemical work of the body.

The second compartment consists of supporting tissue. This is composed of bone minerals, extracellular proteins, and the internal environment, or the extracellular fluid in the blood and lymph.

"The third compartment is the energy reserve. This consists of fat, which lies round the principal internal organs and in adipose tissue.

Study the following statements carefully and decide whether they are true or not true according to the information in the reading passage above. Then check your answers by referring to the solutions at the end of the passage."

Cơ thể có 3 ngắn. Ngắn dẫu bao gồm mô hoạt tính, cũng được biết là khối tế bao. Mô này thực hiện hậu thật công việc có liên quan đến, phần ứng hoa học của cơ thể.

Ngắn thứ hai bao gồm mô năng dỡ Mô năng dỡ này gồm có các chất khoảng xương, các prótein ngoại bảo và môi trường bên trong hoặc dịch ngoại bảo trong máu và limpho

Ngàn thứ ba là phán dư trừ năng lương. Ngàn này bao gồm mở bao quanh các cơ quan nội tang chính và trong mò mờ

Hày nghiên cứu các câu đười đây một cách cầu thân và quyết định liều chúng có đưng hay sar theo thông tin của đoạn văn trên. Sau đó kiểm tra câu trả lời của ban bằng cách tham khảo lời giai ở chọi trang.

- (u) The first compartment of the body consists of cell mass
- (b) The second compartment of the body is composed of bone minerals.
- (e) The internal environment is composed of the extracellular fluid in the blood and lymph.
- (d) The energy reserve is composed of adipose tissue and fat which lies round the principal internal organs

*These compartments cannot be separated by physical dissection, but it is possible to measure them indirectly. This may be done using methods such as the dilution technique.

Các ngắn này không thể tách bằng phầu thuất, nhưng có thể do chung một cách gián tiếp. Điều nay có thể thực hiện được bằng cách sử dụng các phương pháp như kỳ thuật pha loàng

"The size of each compartment varies according to the age, sex and health of the individual. "In a healthy young man the total body weight is divided approximately: 55% cell mass, 30% supporting tissue, and 15% energy reserve. "A healthy young woman has normally twice as much fut.

Kích thước của mỗi ngắn thay dỗi theo tuổi tác, giới tình và sức khỏc của từng người. Đối với thanh tuên khóc manh, toàn bộ trong lương cơ thể được chia xấp xí 55% khối tế bao, 30% mô năng đờ và 15% dự trữ năng lương. Đối với một người phụ nữ khỏc manh bình thường có lương mở nhiều gấp đội.

- (e) The compartments of the body are measurable.
- (f) The dilution technique is the only method of measuring the compartments of the body
- (g) The sum of the sizes of the compartments = the total body weight.
- (h) The energy reserve of a healthy young woman is approximately 30% of her total body weight.

Solutions

- (a) active tissue, which is also known as cell mass (2)
- i.e. active tissue = cell mass

The first compartment of the body consists of active tissue.

- : The first compartment of the body consists of cell mass.
- (b) This is composed of bone minerals, extracellular fluid, and the internal environment (5)

this = the second compartment

The second compartment of the body is composed of bone minerals and other things.

- . It is not true that the second compartment of the body is composed of bone minerals (only).
- (c) the internal environment, or the extracellular fluid in the blood and lymph $\langle 5 \rangle$
- i.e. the internal environment = the extracellular fluid in the blood and lymph.

 The internal environment is composed of the extracellular fluid in the blood and lymph.
- (d) fat, which lies round the principal internal organs and in adipose tissue (7)
- = fat, which lies round the principal internal organs and fat which lies in adipose tissue

(adipose tissue is composed of fat and other things)

The energy reserve is composed of fat, which lies in adipose tissue and round the principal internal organs.

- 2. The energy reserve is Not composed of adipose tissue and fat which hes round the principal internal organs
- (e) it is possible to measure them (8)
- it is possible to measure the compartments of the body.

The compartments of the body are measurable

- (f) methods SUCH AS the dilution technique (9)
- = methods like, for example, the dilution technique
- i.e. The dilution technique is one example of the methods of measuring the compartments of the body.
- The dilution technique is NOT the only method of measuring the compartments of the body.
- (g) the total body weight is divided approximately: 55% cell mass, 30% supporting tissue, and 15% energy reserve (11)

$$55\% + 30\% + 15\% = 100\%$$

- The sum of the sizes of the compartments = the total body weight.
- (h) A healthy young woman has normally twice as much fat. (12)

twice as much fat = twice as much energy reserve (see 6, 7)

twice as much energy reserve (us a healthy young man)

= 2 x approximately 15% of the total body weight (see 11)

The energy reserve of a healthy young woman is approximately 30% of her total body weight.

EXERCISE A: Contextual reference

Viết lại các câu dưới dây vào quyển vở của bạn và hoàn tất chúng sau khi nghiên cứu bài văn đọc.

Write the following sentences in your notebook, and complete them after studying the reading passage.

Vi du:

'This' in sentence 5 refers to the second compartment (OR supporting tissue).

- 1. 'these' in sentence 2 refers to
- 2. 'this' in sentence 3 refers to
- 3. 'this' in sentence 7 refers to

EXERCISE B: Rephrasing

Viết lại các câu đười dây, thay thể các từ in không nghiêng bằng các mệnh đề từ đoạn văn có cùng nghĩa.

Rewrite the following sentences, replacing the words printed in italies with expressions from the reading passage which have the same meaning.

Fat is located round the principal internal organs.

- = Fat hos round the principal internal organs, (lies) from sentence 7)
- 1. In a healthy young man, approximately 55% of the total body weight consists of cell mass.
- 2. The energy reserve consists of fat.
- 3. The supporting tissue consists partly of the extracellular fluid in tire blood and lymph.
- 4. The compartments are not separable by physical dissection.

- 5 Supporting tissue makes up about 30% of the total body a cight
- 6. A young woman has usually twice as much fat as a young min

EXERCISE C: Relationships between statements

Đặt các mệnh dễ sau vào các câu được chí định. Tại chỗ cần thiết, hãy thay thế, sắp xếp lại thứ tự các từ trong câu và thay đổi dấu chấm câu.

Place the following expressions in the sentences indicated. Where necessary, replace and reorder the words in the sentences, and change the punctuation.

Vi du:

however (8)

These compartments cannot be separated by physical dissection. It is, however, possible to measure them indirectly.

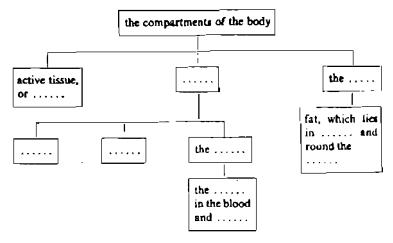
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(a) i.e. (5) (d) for example (11) (b) of course (8) (e) as follows (11) (f) however (12)
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II. USE OF LANGUAGE

EXERCISE A: The description of structure

1. Sao chép lai biểu đồ dưới đây vào quyên vớ của bạn. Tham khao đoạn văn trên và hoàn thành biểu đồ bằng cách điện vao các ô trống.

Copy the following diagram into your notebook. Refer to the reading passage and complete the diagram by filling in the blanks.



2. Viết lại các câu sau đây vào quyển vớ của bạn, bằng cách sử dụng biểu đồ đã hoàn tất để hoàn thành chúng. Dùng động từ "consist of".

Write the following sentences in your notebook, using the completed diagram to finish them. Use the verb consist of.

Ví du:

The compartments of the body consist of active tissue, or cell mass, supporting tissue, and the energy reserve

- (a) Supporting tissue
- (b) The energy reserve
- (c) The internal environment . .

Write the sentences again, this time using the verb be composed of

Vi du.

The compartments of the body are composed of active tissue, or cell mass supporting tissue, and the energy reserve.

3. Viết lại các câu sau đây vào quyển vở của bạn bằng cách sử dụng biểu đồ đã hoàn tất để hoàn thành chúng, sử dụng từ "form".

Write the following sentences in your notebook, using the completed diagram to finish them. Use the verb form.

Vi du:

Fat, which lies in adipose tissue and round the principal internal organs forms the energy reserve.

- (a) The extracellular fluid in the blood and lymph
- (b) Active tissue, supporting tissue, and the energy reserve
- (c) Bone minerals, extracellular proteins and the internal environment

Write the sentences again, this time using the verb make up-

Vidu

The fat which lies in adipose tissue and round the principal internal organs makes up the energy reserve.

4. Viết các câu sau đây vào quyển vớ của bạn, bằng cách dùng biểu đồ và các động từ "consist of", "be composed", "form" và "make up"

Write the following sentences in your notebook, using the diagram and the verbs consist of, be composed of, form and make up.

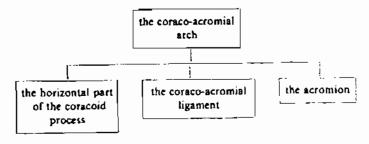
Vi du:

The compartments of the body are composed of active tissue, or cell mass, supporting tissue, and the energy reserve

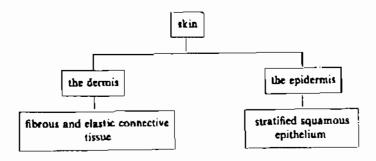
- (a) . . . consists of bone minerals,
- (c) The energy reserve is
- (d) Active tissue,, and the energy reserve ...
- (c) The internal environment consists of ...
- (I) Bone minerals,
- 5. Sử dụng bán đồ sau đây để viết ra những mô tá ngắn πgọn của

Use the following diagrams to write brief descriptions of

(a) the structure of the coraco-acromial arch (1 sentence), and (b) the structure of skin (3 sentences).



(a) The structure of the coraco-acromial arch



(b) The structure of skin

EXERCISE B: Defining and non defining relative clauses

Hãy xem những câu dưới đây:

Look at the following sentences.

- (a) The large intestine extends from the cleum to the anal canal
- (b) The large intestine is about five feet long.

These two sentences van be combined as follows

(c) The large intestine, which is about five feet long, extends from the ileum to the anal canal.

The use of commas with relative clauses

Look at the following sentences:

- (d) The inguinal canal, which is an intermuscular slit, lies above the inguinal ligament
- (e) Endocrine glands, which secrete into the blood, are found in corrows parts of the body
- (f) Glands which secrete into the blood (as known as endocrine glands.
- (g) The amount of oxygen which is consumed by the body can be calculated using laboratory techniques.

- (h) The pleura has a squamous lining, which allows the organs inside to stide over each other.
- (i) The pleura has a squamous lining which allows the organs inside to slide over each other.

In sentence (d) and in sentence (e), the relative clause is separated from the rest of the sentence by commas. These relative clauses are called nondefining relative clauses. The information in a non-defining relative clause is not essential to the understanding of the rest of the sentence. The non-defining relative clause only adds extra information to the sentence.

In sentence (f) and sentence (g), the relative clause is not separated from the rest of the sentence by commas. The information in the relative clauses is essential to the correct understanding of the rest of the sentence. (Read the sentences again, omitting the relative clauses, and you will see how necessary the relative clauses are.) These are called defining relative clauses.

Sometimes a relative clause can be treated either as defining or as nondefining. This depends largely on whether the writer wishes to present the information as essential or additional Sentence (h) might occur in any paragraph describing the contents of the thorax. Sentence (i) might occur when there is particular emphasis on the function of the pleura; i.e. it might follow a description of the mobility of the organs in the thorax.

As a general rule, when a choice can be made between defining and nondefining, the non-defining relative clause, with commas, is the more usual choice in medical writing.

Remember, however, that in sentences like sentences (d), (e), (f), and (g), no choice is possible. The relative clauses in sentences (d) and (e) must be non-defining and must have commas; the relative clauses in sentences (f) and (g) must be defining and must not have commas.

Nối mỗi cặp câu dưới dây thành một câu đơn. Chuyến câu thứ hai thành một mệnh đề quan hệ và chèn chúng vào vị trí thích hợp trong câu thứ nhất. Dùng dấu phẩy khi cần thiết (ví dụ: khi mệnh đề quan hệ là không xác dịnh).

Combine each of the following pairs of sentences into a single sentence. Make the second sentence into a relative clause and insert it into the first sentence in the appropriate place. Use commas when necessary the when the relative clause is non-defining).

Vi du:

- The posterior tibia artery divides into two branches in the foot. The posterior tibia artery runs through the muscle down behind the tibia.
- = The posterior tibial artery, which runs through the muscle down behind the tibia, divides into two branches in the foot.
- 1. The pinna is composed of elastic cartilage covered with skin. The pinna is the part of the ear lying outside the head.
- 2. Glucuse is stored in the body as glycogen. Glycogen is reconverted into glucose when it is needed for energy.

- 3 The energy reserve is composed of fat. Fat his round the principal internal organs and in adipose tissue
- 4 Valves are found in most veins. Valves direct the blood flow proximally
- 5. The bone is called the femur. The bone extends from the hip-bone to the knee.
- 6. The centre of a tooth consists of pulp. The pulp is surrounded by dentine
- 7. The veins of the legs can be divided into two groups, superficial and deep. The two groups, superficial and deep, are joined at intervals by communicating veins.
- 8. The renal arteries supply the kidneys. The renal activities orise immediately below the superior mesenteric artery.
- 9 Ducts and secretory units are surrounded by connective tissue. The connective tissue acts as a supporting framework.
- 10 Osteoclasts send out processes. The processes crode bone
- 11 Synovial membrane secretes a lubricating fluid. Synovial membrane lines wints
- 12. Short bones consist of cancellous bone concred with a thin love of compact bone. Short bones are cuboid in shope
- 13 Round the branches of the splenic artery there may be found aggregates of lymphocytes. These aggregates of lymphocytes are known as Mulptghian corpusetes.
- 14. Bile is stored in the gall-bladder, Bile is excreted by the liver
- 15. The surface of the body is covered by a layer of skin. A layer of skin protects the body tissues,
- 16. The fluid makes up the internal environment. The fluid is contained in the blood and lymph
- 17. One compartment of the body is active tissue. Active tissue is also known as cell mass.
- 18. The lacrimal gland is continually secreting fluid. The fluid loops the eye moist and free from dust particles.

EXERCISE C: Relative clauses with prepositions

Trong văn viết y khoa có nhiều mênh để quan hệ có giới từ trước which. Những mệnh để như thế được thanh lập theo cách dưới đây:

In medical writing there are many relative clauses with a preposition before which. Such clauses are formed in the following way

- (a) Connective tissue is a matrix.
- (b) More highly organized tissues are embedded in this matrix
- = Connective tissue is a matrix in which more highly organized tissues are embedded.

Nối mỗi cặp câu sau đây thành một câu dơn chứa mênh để quan hệ bắt đầu với một giới từ + "which". Dùng đấu phấy khi mệnh để là mệnh để không xác định.

Combine each of the following pairs of sentences into a single sentence containing a relative clause beginning with a proposition + which. Use commas when the clause is a non-defining one.

- 1 The cerebellum is the centre for reflexes. Muscles are co-ordinated and balance is maintained by these reflexes
- 2. The ear has a central part, the vestibule. From the vestibule three canals and the cochlea are given off.
- 3. The muscle is known as the mylo-hyoid. The hyoid bone is connected to the mandible by the muscle.
- 4 There are little branching tubes in dentine. Nutritive material is conveyed from the bloodstream through the little branching tubes in dentine.
- 5. The evanium is a large, bony case. The brain is protected by this large, bony case.
- 6 In the epidermis there are different strata. In the different strata, the cells have distinctive anatomical features.
- 7. Strands of Schwann cells provide surfaces. The growing axons cling to these surfaces.
- 8 The stomach is attached to the abdominal wall by its mesentery. Through its mesentery run blood vessels, lymphatics and nerves.
- 9. Some motor fibres enter the medulla oblongata. They form two pyramidal tracts in the medulla oblongata.
- 10. Endocrine glands have lost their connection with the alimentary cutdy. They were derived from the alimentary vacity.
- 11 The pre-vertebral fascia provides a foundation. The pharynx and the ocsophagus can slide upon this foundation.
- 12. The bone is pierced by many openings, or foramina. The vessels and nerves pass through the openings, or foramina.
- 13. There are small veins in the pulms and fingers. The superficial and deep palmar arches are formed from the small veins in the palms and fingers.
- 14. The capsule of a lymph node is made up of fibrous tissue. There is a certain amount of plain muscle in the fibrous tissue.
- 15 The walls of the capillary and the alreadus fuse to make a very thin wall. The interchange of gases takes place through this very thin wall.

III. INFORMATION TRANSFER

Nghiên cứu các hình minh họa sau đây và những đoạn văn dưới chúng. Viết các đoạn văn vào quyển vở của bạn và sau đó tham kháo các hình minh họa để hoàn chính chúng.

Study the following illustrations and the paragraphs beneath them. Write the paragraphs in your notebook and complete them with reference to the illustration.