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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2025

0055 HEALTH SCIENCE

PAPER I (MULTIPLE CHOICE ITEMS) (40 Marks)

Tuesday **4 June 2025** 1:00 p.m.–2:00 p.m.

INSTRUCTIONS TO CANDIDATES:

- Write your school number, candidate number, surname and initials in the spaces provided at the top right hand side of this page.
- For each question or item, there are four suggested answers – A, B, C and D. When you have selected an answer to a question or item, circle the letter of the answer you have selected. Each question is worth one [1] mark.

FOR EXAMPLE:

What body system is responsible for transporting oxygen around the body?

- ☒ A the circulatory system
- ☐ B the excretory system
- ☐ C the immune system
- ☐ D the nervous system

- If you want to change your choice, erase the unwanted circle clearly or place an X across the letter. Then proceed to circle the letter which you think is correct.

FOR EXAMPLE:

What body system is responsible for transporting oxygen around the body?

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This question paper consists of 11 printed pages and 1 blank page.

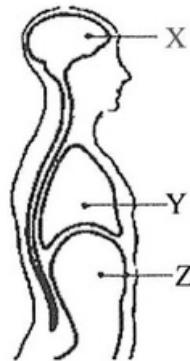
1. Allan's mouth immediately started to salivate as he walked by Bamboo Shack restaurant.

Which row correctly matches the characteristic with the corresponding body system, depicting Allan's reaction?

	Characteristic	Body System
A.	Nutrition	Reproductive
B.	Movement	Circulatory
C.	Respiration	Respiratory
D.	Sensitivity	Nervous

The diagram below shows the structure of the human body cavities.

Questions 2 and 3 relate to the diagram.

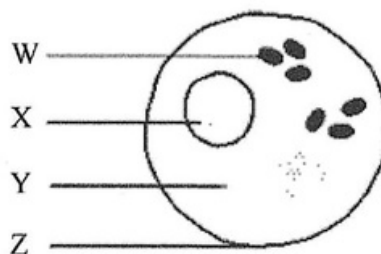


2. Which structure is found in cavity X?
- A. heart
 - B. lungs
 - C. pituitary gland
 - D. stomach
3. What is the name of the structure that separates cavities Y and Z?
- A. bone
 - B. cartilage
 - C. diaphragm
 - D. tissue



The diagram shows a typical cell of which the human body is composed.

Questions 4 and 5 relate to the diagram.



4. Which letter is pointing to the structure which “houses” the components of a cell?
 - A. W
 - B. X
 - C. Y
 - D. Z

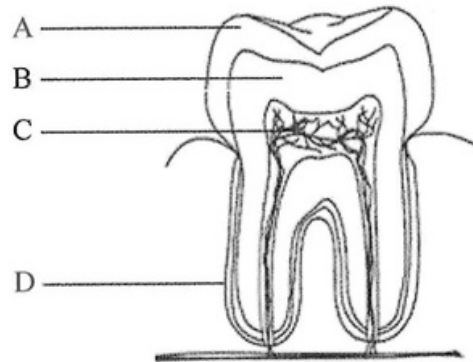
5. Which structures make up the protoplasm?
 - A. W and X
 - B. W and Z
 - C. X and Y
 - D. X and Z

6. Which is an example of a cell?
 - A. blood
 - B. epithelium
 - C. humerus
 - D. ovum

7. Which structure found in cells contains genes and chromosomes?
 - A. cytoplasm
 - B. membrane
 - C. nucleus
 - D. vacuole

8. When tooth decay occurs, a cavity usually progresses through the layers of the tooth.

Which layer on the diagram indicates where a cavity must reach to cause pain?



9. What is the function of molars?

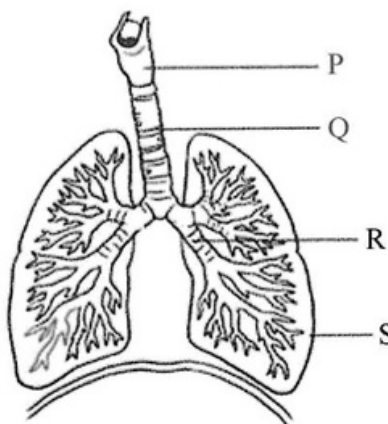
- A. bite and chew food
- B. bite and tear food
- C. chew and grind food
- D. crush and nibble food

10. Which process breaks down large food substances into small soluble particles?

- A. absorption
- B. assimilation
- C. digestion
- D. excretion

The diagram below shows a part of the respiratory system.

Questions 11 and 12 refer to the diagram.



11. Which structure is important in speech?

- A. P
- B. Q
- C. R
- D. S



12. What is the best description of what happens to structure S during inhalation?
- it becomes dome-shaped
 - it expands downwards
 - it expands in size
 - it decreases in size
13. Which substance supports the walls of the trachea?
- bone
 - cartilage
 - muscle
 - tendon
14. Which statement best describes the action of antagonistic muscles?
- They decrease the size of muscles in the arms and legs.
 - They move nutrients throughout the body.
 - They line and cover the systems of the body.
 - They work in pairs to bring about voluntary movements.
15. The diagram shows a hammer being used to put a nail into a piece of wood.



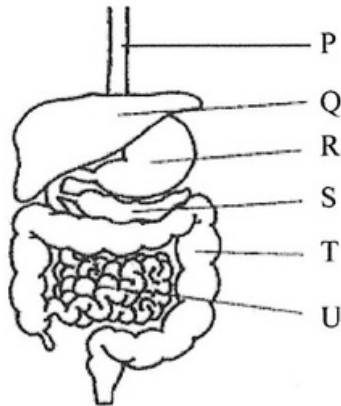
Which type of muscles is being used to bring about this action?

- cardiac muscles
 - involuntary muscles
 - skeletal muscles
 - smooth muscles
16. What is the approximate number of muscles found in the human body?
- 520
 - 206
 - 650
 - 350
17. What is the name of the enzyme found in saliva?
- amylase
 - bile
 - pepsin
 - rennin



The diagram shows the human digestive system.

Use the diagram to answer questions 18 and 19.

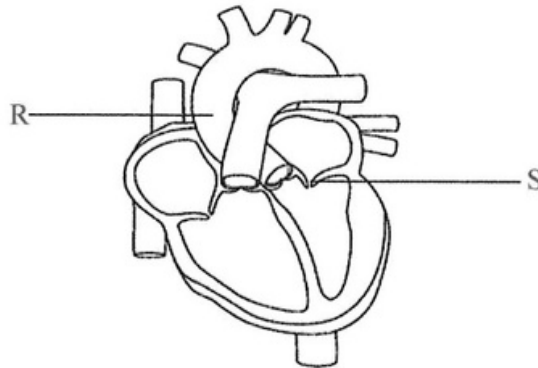


18. Which letters point to the organs where enzymes are made?
- A. P, Q and R
 - B. P, T and U
 - C. Q, S and T
 - D. R, S and U
19. Which letter points to where most water is absorbed from food?
- A. Q
 - B. R
 - C. T
 - D. U
20. Which nutrient when in excess, is stored in the liver as glycogen?
- A. carbohydrates
 - B. minerals
 - C. proteins
 - D. vitamins



The diagram below shows the structure of the human heart.

Questions 21 and 22 refer to the diagram.



21. What is the name of the structure labelled R?

- A. aorta
- B. vena cava
- C. pulmonary artery
- D. pulmonary vein

22. Which of the following statement is true about the function of structure S?

- A. It allows the blood to flow from the left auricle to the right auricle.
- B. It allows the blood to flow from the left auricle to the left ventricle.
- C. It allows the blood to flow from right auricle to the right ventricle.
- D. It allows the blood to flow from the right ventricle to the left ventricle.

23. From the table below select the row that correctly describes arteries and veins.

	Arteries	Veins
A.	Blood moves slowly	Blood moves quickly
B.	Small lumen (space)	Large lumen (space)
C.	Thin elastic and muscular walls	Thick elastic and muscular walls
D.	Valves present	Valves absent

24. If a woman has a urine test and the results showed the presence of large amounts of glucose, what disease is she most likely to have?

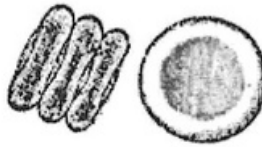
- A. asthma
- B. diabetes
- C. hypertension
- D. tuberculosis

25. Which is NOT a function of the liver?

- A. breaks down red blood cells
- B. excretes urine
- C. makes bile
- D. produce urea

The diagram below shows a type of blood cell.

Use the diagram to answer questions 26 and 27.



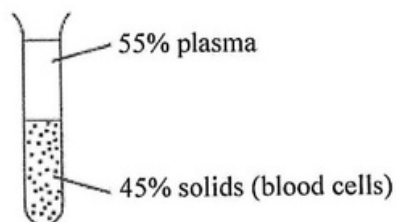
26. Which statement describes a unique feature of this blood cell?

- A. It does not have a nucleus.
- B. It has a nucleus.
- C. It does not have any shape.
- D. It transports wastes.

27. Which of the following diseases affect this type of blood cell?

- A. cardiovascular disease
- B. multiple sclerosis
- C. sickle cell anemia
- D. urinary tract infection

28. The diagram below shows the two major components of the blood. The human body has approximately 5 litres of blood.



How many litres of blood constitute or make up the component of plasma?

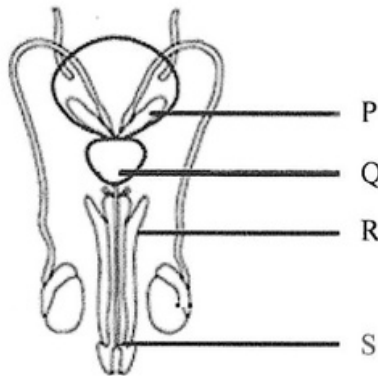
- A. 1
- B. 2.5
- C. 2.75
- D. 3



29. Normally, a female releases one egg monthly from one of her ovary, at the beginning at puberty until menopause. Puberty for Alice began at age 12 and menopause was at 54.

How many eggs were likely released from Alice's left ovary during her reproductive years?

- A. 120
 - B. 210
 - C. 252
 - D. 504
30. Which hormone is likely to cause the development of breasts in females during puberty?
- A. adrenaline
 - B. oestrogen
 - C. progesterone
 - D. testosterone
31. The diagram shows the male reproductive system. Which two structures contribute components of semen?



- A. P and Q
 - B. P and S
 - C. R and S
 - D. R and Q
32. Which substance can pass from the mother to the foetus?
- A. alcohol
 - B. blood
 - C. carbon dioxide
 - D. urea
33. Which statement best describes the components of the afterbirth?
- A. the placenta and umbilical cord
 - B. the amnion and amniotic sac
 - C. the placenta and amnion
 - D. the umbilical cord and amniotic sac

34. The diagram shows two adults who are the same age and each has a growth abnormality. Which endocrine gland is likely to malfunction to cause the condition shown?



- A. Adrenals
- B. Pancreas
- C. Pituitary
- D. Testes

35. Which row correctly shows a difference between the endocrine and nervous system?

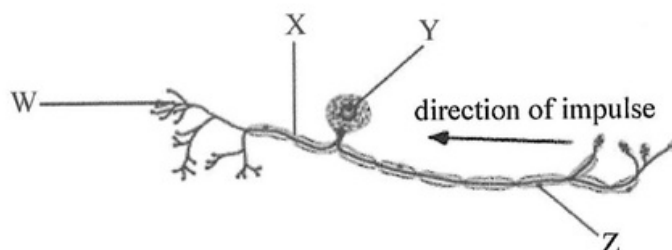
	Nervous System	Endocrine System
A.	Messages transmitted as chemicals	Messages transmitted as impulses
B.	Messages travel quickly	Messages travel slowly
C.	Messages cause long term responses	Messages cause short term response
D.	Messages travel in the bloodstream	Messages travel by nerves

36. Which of the following statements is correct about reflex action?

- A. They are quick, involuntary responses and do not rely on the brain.
- B. They are quick voluntary responses that rely on the brain.
- C. They are slow, involuntary responses that do not rely on the spinal cord.
- D. They are slow, voluntary responses that rely on the spinal cord.

37. The diagram below shows a nerve cell or neurone.

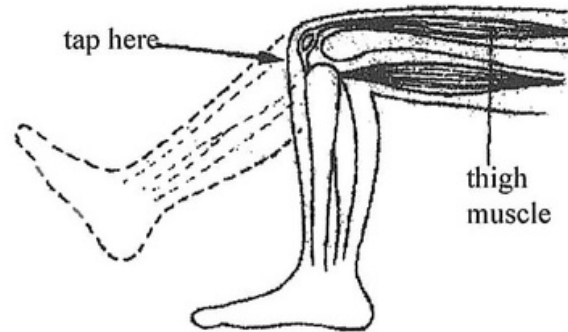
Which letter indicates the axon?



- A. W
- B. X
- C. Y
- D. Z

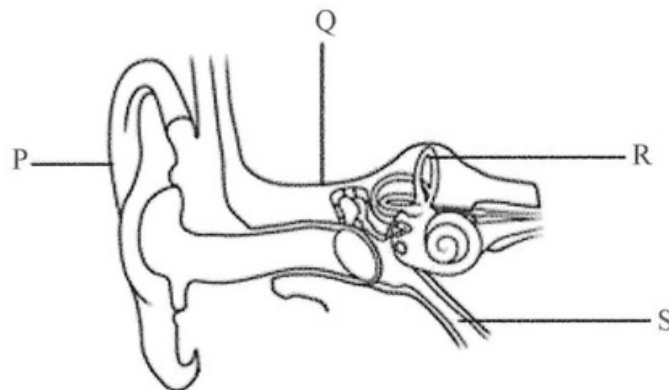


38. The diagram shows what happens to the leg when a sharp, light tap is applied just above the knee cap.



What do we call this kind of movement?

- A. conditioned reflex
 - B. inborn reflex action
 - C. learned reflex
 - D. voluntary action
39. The diagram below shows a human ear.
- Which structure is important for balance?



- A. P
 - B. Q
 - C. R
 - D. S
40. The table below shows the sense organs and their stimuli.
- Which row correctly matches the sense organ with its stimulus?

	Sense organ	Stimulus
A.	Ear	Sight
B.	Eye	Sound
C.	Skin	Scent
D.	Tongue	Chemicals

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