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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2020**

0055 HEALTH SCIENCE

**PAPER I (MULTIPLE CHOICE ITEMS)
(40 Marks)**

Wednesday **23 June 2021** 1:00 P.M.–2:00 P.M.

INSTRUCTIONS TO CANDIDATES:

1. Write your school number, candidate number, surname and initials in the spaces provided at the top right hand side of this page.
2. 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.

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

3. 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?

- ☐ (A) the circulatory system
- ☐ B the excretory system
- ☐ C the immune system
- ☒ (X) the nervous system



1. Which structure forms the main component of human body tissues?
 - A bones
 - B cells
 - C organs
 - D systems

2. Which substances speed up the process of chemical reactions in the human body?
 - A enzymes in the digestive juice
 - B glucose in the blood
 - C perspiration on the *skin*
 - D urine in the bladder

3. Which body system uses oxygen to release energy from nutrient in food?
 - A circulatory system
 - B digestive system
 - C endocrine system
 - D respiratory system

4. How does the marrow in bones aid the circulatory system?
 - A It supports the continuous circulation of blood.
 - B It maintains the constant temperature of the blood.
 - C It produces cells found in the plasma of the blood.
 - D It helps the blood to clot at the site of a wound.

5. Which **TWO** bones in the human skeleton are connected to the femur?
 - A carpal and metacarpal
 - B fibula and tibia
 - C radius and ulna
 - D tarsal and metatarsal

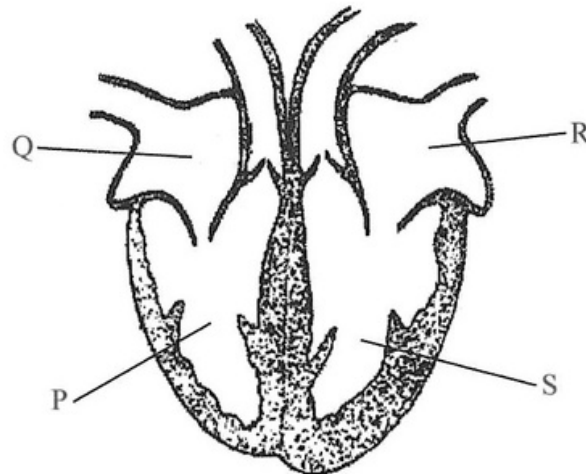
6. What happens in the body when peristalsis takes place?
 - A air moves in and out of the lungs
 - B blood flows through the blood vessels
 - C food moves through the alimentary canal
 - D urine flows out of the body

7. Which food nutrient contains nitrogen?
 - A carbohydrates
 - B fats
 - C proteins
 - D water



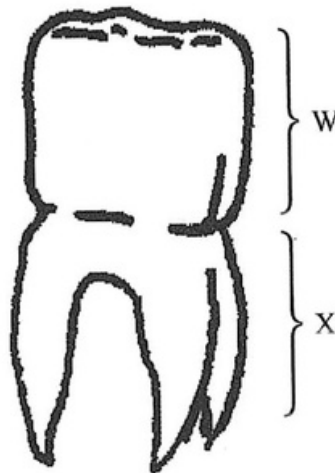
8. Which characteristic describes the action of a girl shivering in the cold?
- A excretion
 - B growth
 - C respiration
 - D sensitivity
9. Which blood group must a person have to be able to safely receive blood from **all** of the other blood groups?
- A A
 - B B
 - C AB
 - D O
10. A patient in the hospital was given a blood test. The test results showed a very high amount of glucose in the blood.
- Which body organ is most likely to be malfunctioning?
- A heart
 - B kidneys
 - C liver
 - D pancreas
11. Which statement best describes the action of antagonistic muscles?
- A They move nutrients throughout the body.
 - B They line and cover the systems in the body.
 - C They work in pairs to bring about voluntary movements.
 - D They decrease the size of muscles in the arms and legs.
12. What is the function of the septum in the human heart?
- A to generate heart beats
 - B to produce antibodies
 - C to separate the chambers into left and right sides
 - D to separate the chambers into upper and lower sections

13. The diagram represents the human heart.



Which chambers of the heart pump blood away from the heart?

- A P and R
 - B P and S
 - C R and Q
 - D S and R
14. The diagram shows a tooth found in the jaw of a human.



Identify the parts labelled W and X.

- A W is the crown and X is the gum
 - B W is the crown and X is the root
 - C W is the enamel and X is the dentine
 - D W is the neck and X is the root
15. Which type of teeth is used for tearing food?
- A bicuspid
 - B canine
 - C incisor
 - D molar



16. Which of the following is an external activity of the body?

- A chewing food
- B producing estrogen
- C scratching the scalp
- D transporting hormone

17. What happens in the pharynx as food is being swallowed?

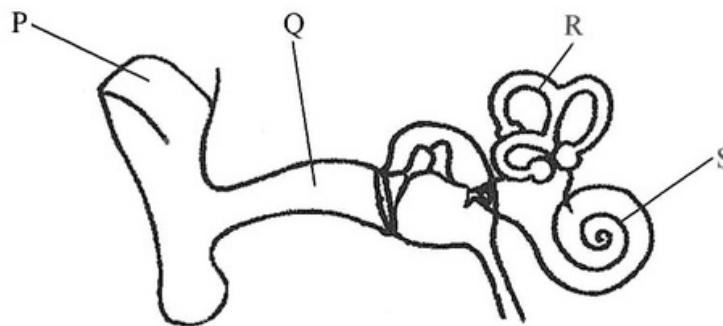
- A the epiglottis closes over the oesophagus
- B the epiglottis closes over the windpipe
- C the glands secrete digestive juice
- D the vocal cords vibrate

18. In which organs are the alveoli located?



The diagram shows the structures that make up the human ear.

Questions 19 and 20 refer to the diagram.



19. What is the name of the structure labelled S?

- A cochlea
- B eustachian tube
- C pinna
- D semi-circular canal

20. In which structure is wax most likely to accumulate?

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

21. Taste is one function of the tongue. What is another function of the tongue?

- A to form chewed food into a bolus
- B to moisten and digest food
- C to produce enzymes
- D to secrete saliva

22. Diagram A and diagram B show two different activities being carried out.



diagram A

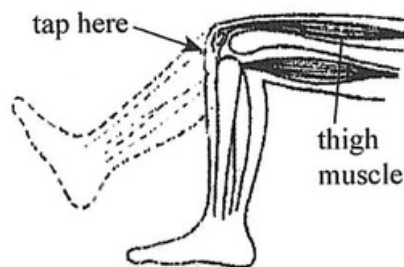


diagram B

Identify the type of action shown in each diagram.

- A diagram A shows a condition reflex and diagram B shows a learned reaction
- B diagram A shows an involuntary action and diagram B shows a condition reflex
- C diagram B shows a voluntary action and diagram A shows a reflex action
- D diagram B shows a reflex action and diagram A shows a voluntary action

23. Where in the human body is the "Master Gland" located?

- A abdomen
- B cranium
- C chest
- D diaphragm

24. What happens if the skin is cut and bacteria gets into the wound?

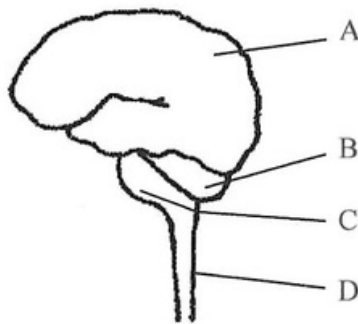
- A a cramp occurs
- B diffusion takes place
- C an infection develops
- D haemorrhage begins

25. In which human body structure is the ovum produced?

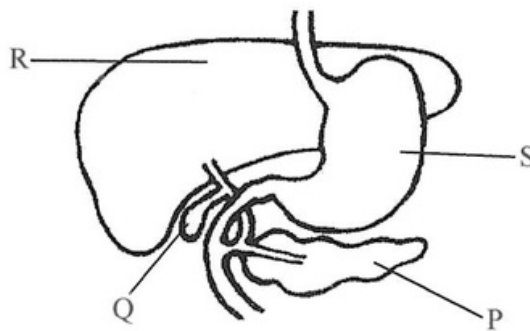
- A fallopian tube
- B ovary
- C uterus
- D vagina



26. The diagram shows the human brain and spinal cord. Which letter points to the part which controls speech and memory? (Circle the letter on the diagram.)



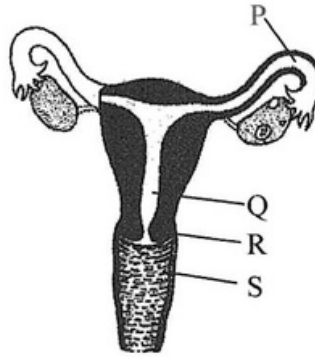
27. The diagram shows parts of the digestive system.



Which structure produces a secretion which emulsifies fats?

- | | |
|---|---|
| A | P |
| B | Q |
| C | R |
| D | S |
28. Which structures, found in the walls of the small intestine, increase the surface area for absorption of nutrients?
- | | |
|---|----------|
| A | arteries |
| B | lacteals |
| C | veins |
| D | villi |
29. Urine is a mixture of several substances. Which substance is **NOT** normally found in urine?
- | | |
|---|---------|
| A | glucose |
| B | salt |
| C | urea |
| D | water |

30. Which line points to the part of the human female reproductive system which dilates during birth?



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

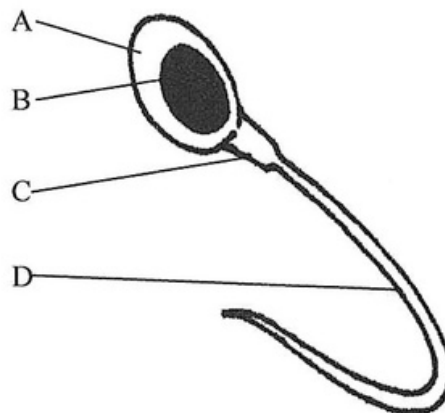
31. Which **one** shows the correct path of urine as it passes out of the body?

- | | |
|---|--------------------------------------|
| A | kidneys → urethra → bladder → ureter |
| B | kidneys → urethra → ureter → bladder |
| C | kidneys → ureter → urethra → bladder |
| D | kidneys → ureter → bladder → urethra |

32. A simple bacterial cell is capable of dividing once every 20 minutes in suitable conditions. Starting with a single bacterial cell, how many bacterial cells will be produced in **two** hours?

- | | |
|---|----|
| A | 8 |
| B | 16 |
| C | 32 |
| D | 64 |

33. The diagram shows a human sperm cell. Which letter points to the part where an **X** chromosome would be found? (Circle the letter on the diagram.)



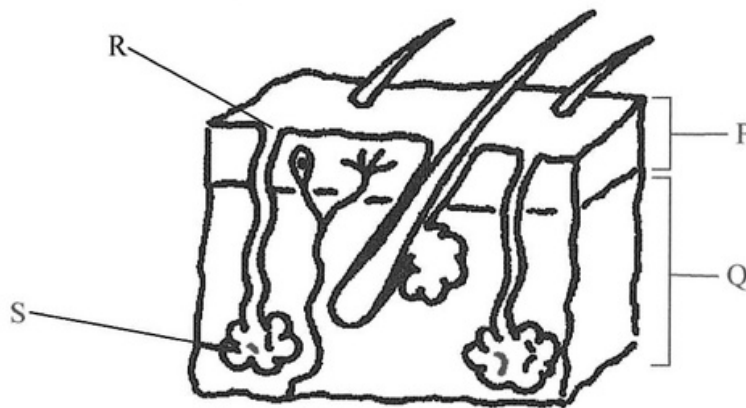
34. Which body organs produce both spermatozoa and testosterone?

- A adrenal glands
- B pancreas
- C testes
- D vas deferens

35. Which term describes the sudden release of semen from the penis?

- A ejaculation
- B erection
- C fertilisation
- D puberty

36. The diagram shows a section of the human skin. Which structure produces melanin?

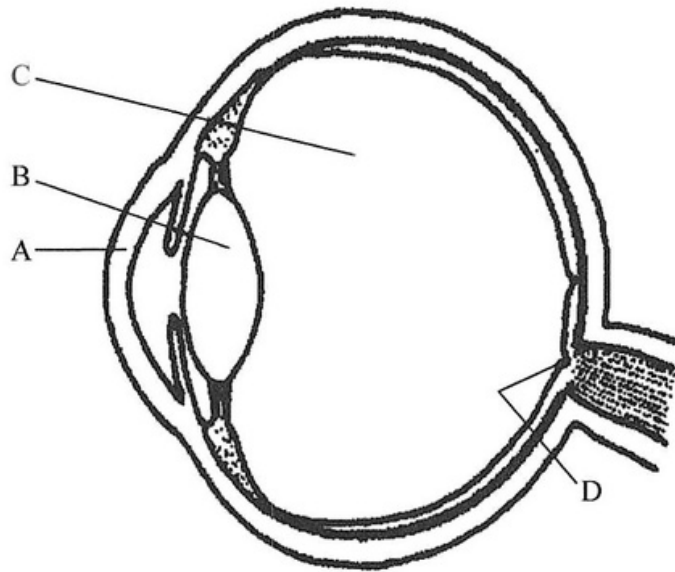


- A P
- B Q
- C R
- D S

37. Which structure in the human body is most likely to be affected by colon cancer?

- A large intestine
- B mouth
- C pancreas
- D small intestine

38. The diagram shows the structure of the human eye. Which line points to the vitreous humour? (Circle the letter on the diagram.)



39. Which stimulus allows the eyes to see objects?
- A chemical
 - B heat
 - C light
 - D sound
40. Which disease of the human skin is caused by a fungus?
- A AIDS
 - B influenza
 - C ringworm
 - D syphilis



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