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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2023

0055 HEALTH SCIENCE

PAPER I (MULTIPLE CHOICE ITEMS) (40 Marks)

Monday **5 June 2023** 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.

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:

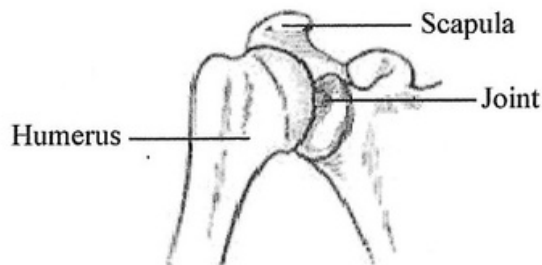
What body system is responsible for transporting oxygen around the body?

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



This question paper consists of 12 printed pages and 4 blank pages.

1. Which branch of science deals with the ways of keeping the body and the environment clean?
 - A anatomy
 - B biology
 - C hygiene
 - D physiology
2. Which characteristic describes the action of a girl shivering in the cold?
 - A excretion
 - B growth
 - C respiration
 - D sensitivity
3. Which structure joins muscles to bones?
 - A cartilage
 - B ligament
 - C tendon
 - D tissue
4. 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.
5. The diagram below shows a portion of the human skeleton at a joint. Where else in the human body would this type of joint be found?



- A hip
- B knee
- C knuckle
- D wrist

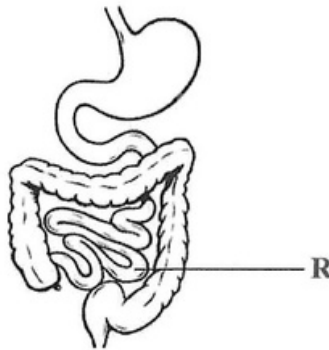


6. Which activity below will involve the use of involuntary muscles?

- A bending the arm at the elbow
- B biting an apple
- C kicking a ball
- D food moving through the alimentary canal

7. The diagram below shows the digestive system. Absorption occurs in organ **R**.

Which feature below is present in organ **R** to allow this process to occur efficiently?



- A large surface area
- B rich blood supply
- C small surface area
- D thick membrane walls

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

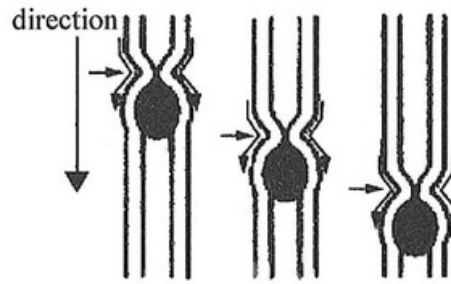
- A the epiglottis closes over the oesophagus
- B the epiglottis closes over the windpipe
- C the glands secrete digestive juice
- D the vocal cords vibrate

9. Which **one** of the following organs seems to have no apparent use in the adult human body?

- A appendix
- B cochlea
- C retina
- D spleen

10. The diagram below shows how food substances pass through the digestive system.

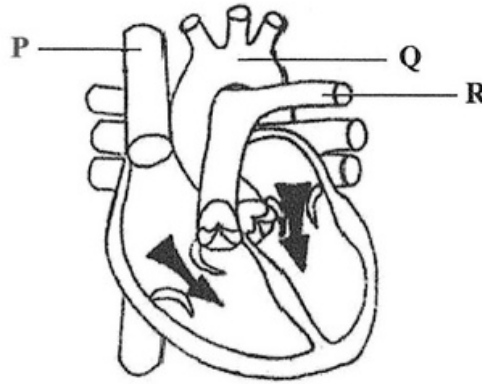
What process does this diagram represent?



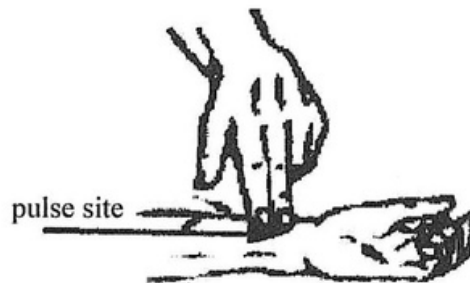
- A absorption
B digestion
C metabolism
D peristalsis
11. Which sentence below explains what happens to the air we breathe in and out of our lungs?
- A air we breathe out has less carbon dioxide than the air we breathe in.
B air we breathe out has less hydrogen than the air we breathe in.
C air we breathe out has less nitrogen than the air we breathe in.
D air we breathe out has less oxygen than the air we breathe in.
12. Below is the word equation for aerobic respiration.
- What substances are represented by the letters X and Y?
- GLUCOSE + X → CARBON DIOXIDE + WATER + Y
- A X is carbon dioxide, Y is energy
B X is helium, Y is carbon dioxide
C X is nitrogen, Y is oxygen
D X is oxygen, Y is energy
13. How does the marrow in bones aid the circulatory system?
- A supports the continuous circulation of blood.
B maintains the constant temperature of the blood.
C produces cells found in the plasma of the blood.
D helps the blood to clot at the site of a wound.



14. The diagram below shows the human heart. Where does the blood go when it leaves blood vessel **R**?



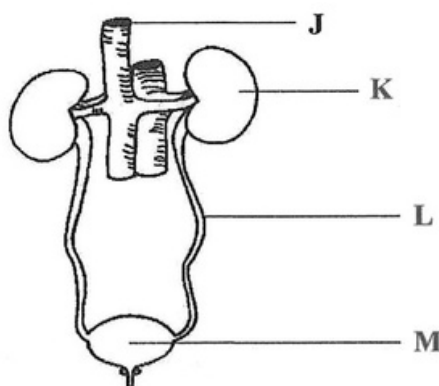
- A to the body
 B to the lungs
 C to the left atrium
 D to the right atrium
15. What is the function of the septum in the human heart?
- A to generate heart beats
 B to produce antibodies
 C to separate the chambers into left and right sides
 D to separate the chambers into upper and lower sections
16. The picture below shows the measurement of the pulse in the lower arm.



If the measurement taken is 22 beats in 15 seconds. What is the number of beats in one minute?

- A 44
 B 66
 C 76
 D 88

17. 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
18. Why do hospitals ask people to donate blood?
- A blood is often needed for surgeries and operations.
B doctors need to make monthly deposits at the blood bank.
C hospitals want to examine blood to see if it is healthy.
D people usually have more blood than they need in their body.
19. What harmful substance is filtered out of the blood and becomes the main nitrogenous waste excreted from the body?
- A salts
B sugar
C urea
D water
20. The diagram below represents the human urinary system.



Which structure helps to regulate the level of water in the body?

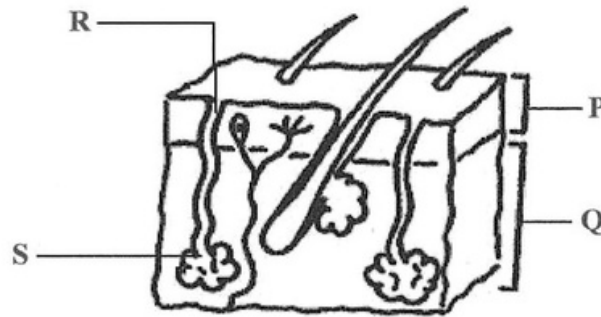
- A J
B K
C L
D M



21. Which is **NOT** a function of the liver?

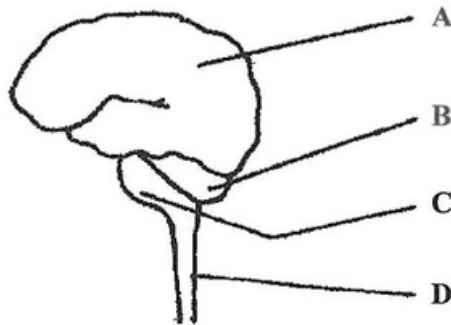
- A excretes urine
- B makes bile
- C produces urea
- D stores iron

22. The diagram shows a section of the human skin. Which letter represents the structure that produces melanin?



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

23. The diagram shows the human brain and spinal cord. Which letter points to the part which controls involuntary actions?



24. Which row in the table correctly matches the stimulus with its receptor?

	Stimulus	Receptor
A	pain	skin
B	pin	finger
C	pin	skin
D	prick	hand

25. The diagram below shows a sensory neurone.

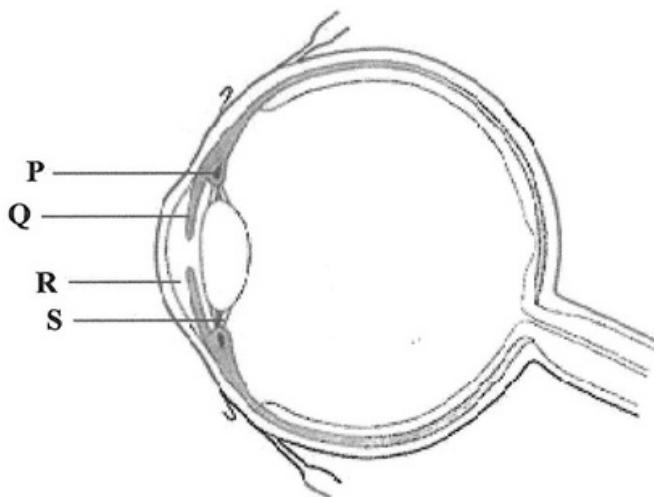


Which structure could be found at X and Y?

	X	Y
A	brain	intestine
B	brain	leg
C	eye	hand
D	skin	spinal cord

26. The diagram below shows the structures that make up the human eye.

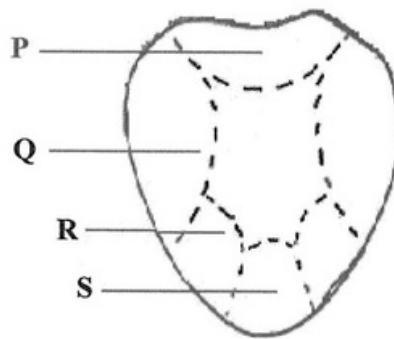
Which two labelled parts control the shape of the lens?



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



27. Ceracee, a bush medicine, is used as a treatment for colds and flu. Examine the diagram of the tongue below and determine which part of the tongue would detect the chemicals in a spoonful of Ceracee?



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

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

- | | |
|---|-------------------------------------|
| A | to form chewed food into a bolus |
| B | to connect the mouth to the stomach |
| C | to produce enzymes |
| D | to secrete saliva |

29. The diagram A and diagram B show two different activities being carried out.



diagram A

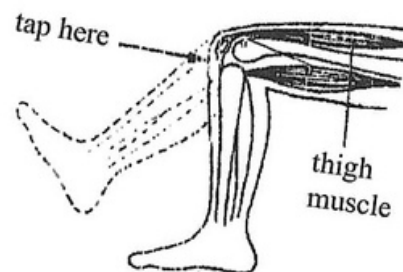


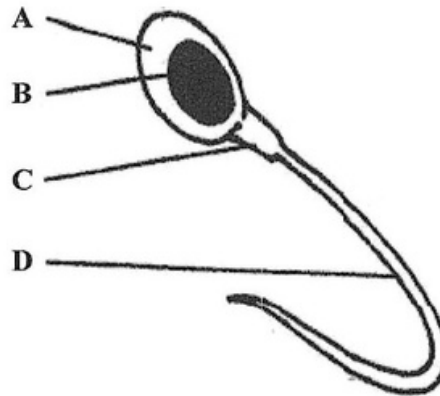
diagram B

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 |

The diagram shows a human sperm cell. Use the diagram to answer questions 30 and 31.

30. Which letter points to the part where an X chromosome would be found?



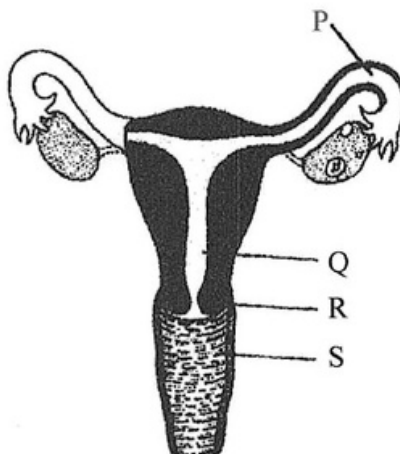
31. How many chromosomes are found in this cell?

- A 12
- B 23
- C 46
- D 63

32. Which of the following diagrams correctly shows the path of a sperm as it travels from where it is made until it is ejaculated?

- A epididymis → testis → sperm duct → ureter
- B testis → epididymis → sperm duct → urethra
- C sperm duct → epididymis → urethra → testis
- D ureter → sperm duct → testis → epididymis

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



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



34. Which type of twins are formed when a fertilised egg divides completely into two parts before implantation?

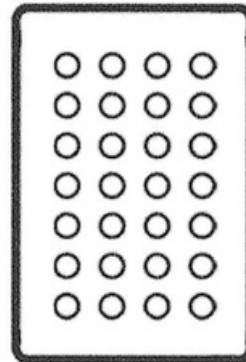
- A conjuncture twins
- B fraternal twins
- C identical twins
- D siamese twins

35. The diagram below shows two types of contraceptives that a woman could use.

Why may the condom be a better choice than the birth control pills?



Condom



Birth Control Pills

- A Condom is easier to use than birth control pills.
- B Condom prevents pregnancies and sexually transmitted diseases.
- C Condom is more reliable than birth control pills.
- D Condom is more portable and safer than birth control pills.

36. Proper hygiene practices became essential during the Covid-19 pandemic. Which practice below was emphasised?

- A bathe regularly
- B brush your teeth after eating
- C cut your nails regularly
- D wash your hands often with soap and water

37. The table below shows the number of reported cases of measles on an island. In which year was the measles vaccine likely to have been introduced to fight against measles?

	Year	Number of Reported Cases of Measles
A	1935	50,000
B	1945	46,000
C	1955	2,000
D	1965	120

38. Acquired Immune Deficiency Syndrome (AIDS) cannot be cured but Gonorrhea can.

What is the best explanation for this?

- A AIDS is caused by a bacterium and Gonorrhea is caused by a protist.
B AIDS is caused by a fungus and Gonorrhea is caused by a virus.
C AIDS is caused by a protist and Gonorrhea is caused by a fungus.
D AIDS is caused by a virus and Gonorrhea is caused by a bacterium.
39. Excessive drinking of alcohol would most likely damage which organ of the human body?
- A gullet
B liver
C lung
D stomach
40. There are many health risks associated with smoking tobacco. Which product in cigarettes is a carcinogen (cancer causing agent)?
- A tar
B nicotine
C carbon monoxide
D smoke particles



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