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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2020

0055 HEALTH SCIENCE

PAPER I (MULTIPLE CHOICE ITEMS) (40 Marks)

Tuesday **2 June 2020** 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?

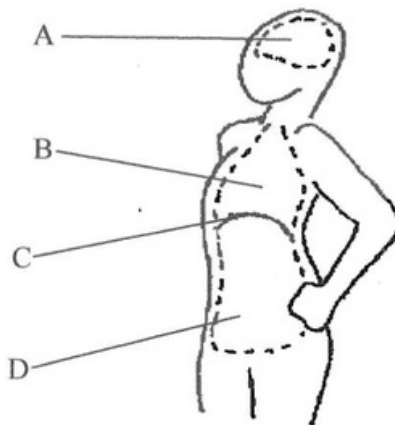
- ☐ A the circulatory system
- ☐ B the excretory system
- ☒ C the immune system
- ☐ D the nervous system



This question paper consists of 10 printed pages and 2 blank pages.

1. Which body system allows us to respond to changes in our environment?
A circulatory
B digestive
C excretory
D nervous
2. Which characteristic of living things allows carbon dioxide, salt and urea to be removed from the body?
A excretion
B growth
C reproduction
D respiration

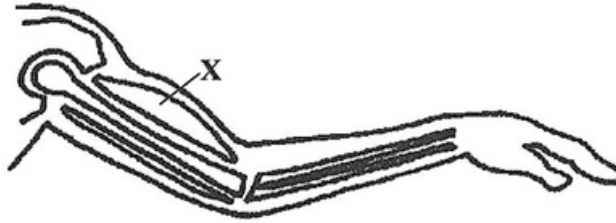
3. The diagram shows the **THREE** main body cavities. Which letter labels the diaphragm?



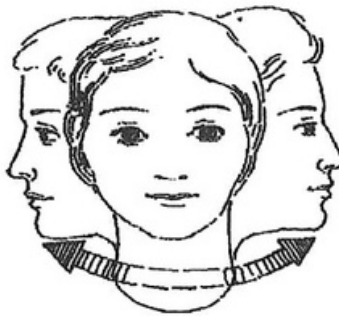
4. Which organs are located below the diaphragm?
A heart and lungs
B kidneys and heart
C liver and stomach
D lungs and stomach
5. What happens to a person's chest cavity when the diaphragm contracts and relaxes?
A air moves in and out of the lungs
B blood flows through the blood vessels
C food moves through the alimentary system
D urine passes out of the bladder



6. What is the name of the structure labelled X and what happens to it when it contracts?



- A bicep muscle, it bends the arm
 - B bicep muscle, it straightens the arm
 - C triceps muscle, it bends the arm
 - D triceps muscle, it straightens the arm
7. Which **TWO** bones are attached to the rib cage in the human skeleton?
- A carpal and femur
 - B clavicle and the scapula
 - C sternum and vertebrae
 - D tibia and vertebrae
8. The diagram shows a rotation movement of the head.



Which type of joint allows this movement?

- A ball and socket
 - B gliding
 - C hinge
 - D pivot
9. What is the normal temperature of the human body?
- A 92.4°F
 - B 94.6°F
 - C 96.4°F
 - D 98.6°F

10. The diagram shows a specialised human body cell.



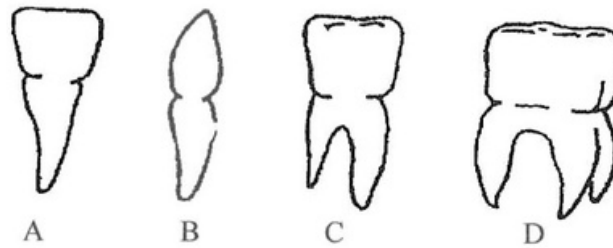
To which group does this cell belong?

- A blood
 - B gametes
 - C nerve
 - D ova
11. In which organ do the ciliary muscles work to bring about movement?
- A brain
 - B ears
 - C eyes
 - D tongue
12. Why do people need calcium in their diet?
- A to form healthy bones and teeth
 - B to maintain a constant body temperature
 - C to make haemoglobin in the red blood cells
 - D to produce pancreatic juice
13. To which group of substances does glucose belong?
- A adrenaline, estrogen, insulin, oxytocin
 - B amylase, lipase, pepsin, maltase
 - C fructose, maltose, lactose, sucrose
 - D iodine, iron, potassium, sodium
14. Which material covers the crown of a tooth?
- A cement
 - B dentine
 - C enamel
 - D pulp



15. The diagram shows the four types of teeth found in the human jaw.

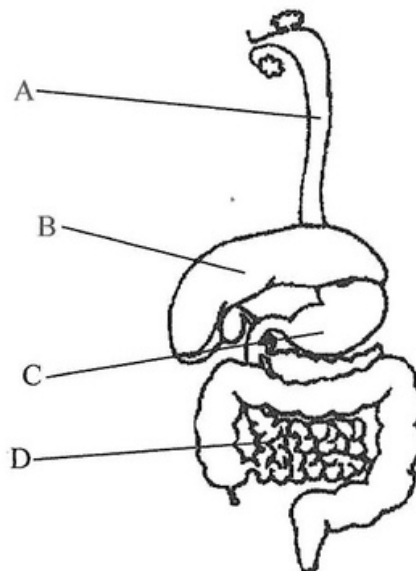
To which type do the wisdom teeth belong?



16. Which deficiency disease causes swollen bleeding gums?

- A arthritis
- B diabetes
- C scabies
- D scurvy

17. The diagram shows the human digestive system. Which organ produces gastric juice and hydrochloric acid?



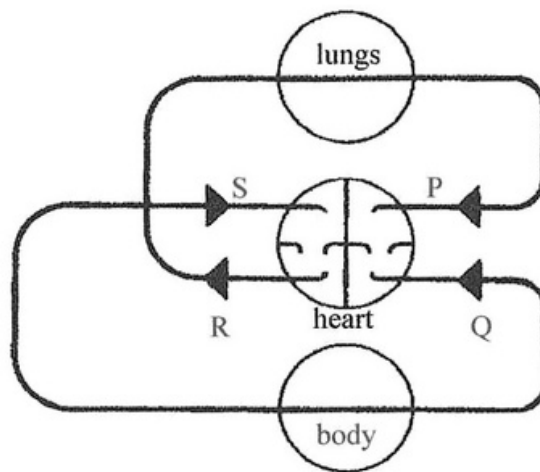
18. Which **TWO** processes happen to a piece of bread in the mouth?

- A absorption and egestion
- B assimilation and absorption
- C digestion and ingestion
- D egestion and digestion

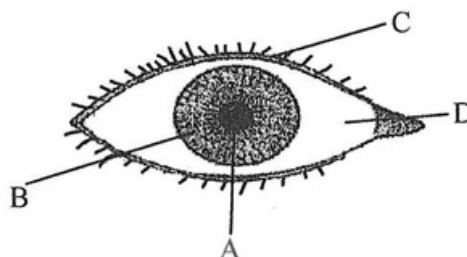
19. James had surgery to remove his gall bladder. What type of food would the doctor advise him to limit or remove from his diet?

- A fat
- B fibre
- C protein
- D starch

20. The diagram shows a simple plan of the human circulatory system. Which arrow shows the wrong direction of blood flow?



- A arrow P
 B arrow Q
 C arrow R
 D arrow S
21. Blood appears to be red in colour to the naked eyes. Which **TWO** components cause it to be a bright red colour?
- A lymphocyte and haemoglobin
 B platelets and carbon dioxide
 C red blood cells and oxygen
 D white blood cells and oxygen
22. If the average heartbeat rate is 70 beats per minutes, how long would it take the heart to beat 12,600 times?
- A one hour
 B three hours
 C twelve hours
 D twenty four hours
23. The diagram shows the human eye. Which letter points to the pupil?

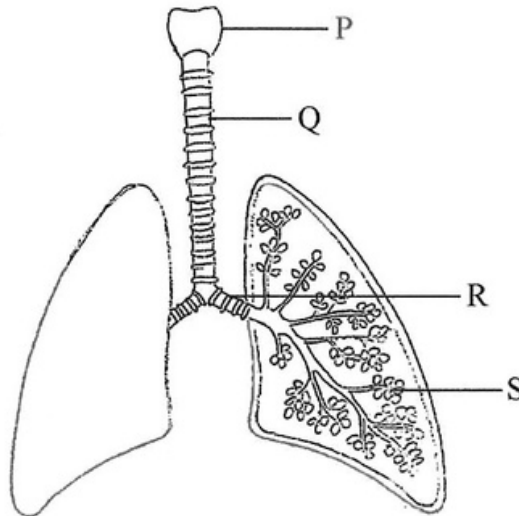


24. Which line diagram correctly shows the path of light ray passing through the eyes?

- A aqueous humour → cornea → lens → vitreous humour → retina
- B cornea → aqueous humour → lens → vitreous humour → retina
- C lens → cornea → vitreous humour → aqueous humour → retina
- D vitreous humour → aqueous humour → lens → cornea → retina

The diagram shows the human respiratory system.

Questions 25 and 26 refer to the diagram.



25. Which labelled structure contains vocal cords?

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

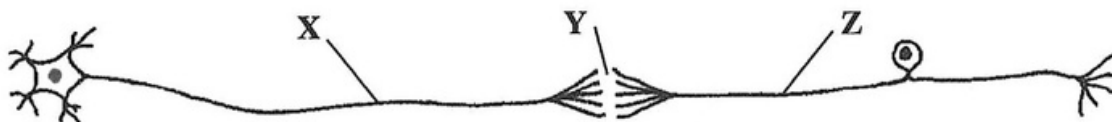
26. What process occurs in structure S?

- A breathing in
- B breathing out
- C exchange of gases
- D release of energy

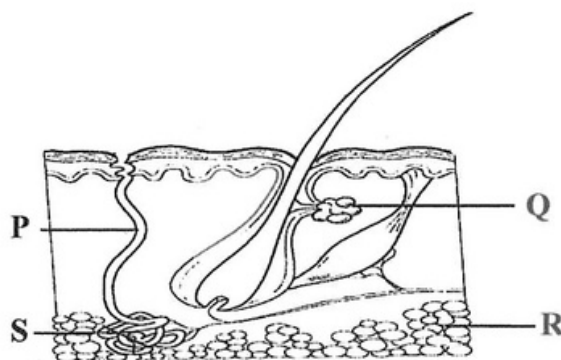
27. During which process does the epiglottis closes over the trachea?

- A chewing
- B inhaling
- C swallowing
- D talking

28. The diagram shows structures found in the nervous system. What structures are labelled X, Y and Z?



- A X is a motor neuron, Y is a sensory neuron and Z is a synapse.
 B X is a motor neuron, Y is a synapse and Z is a sensory neuron.
 C X is a sensory neuron, Y is a synapse and Z is a motor neuron.
 D X is a synapse, Y is a sensory neuron and Z is a motor neuron.
29. What term describes a person's state of complete physical, mental, social and emotional well being?
- A anatomy
 B health
 C hygiene
 D physiology
30. The diagram shows the structure of the human skin.



Which structure produces an oily substance?

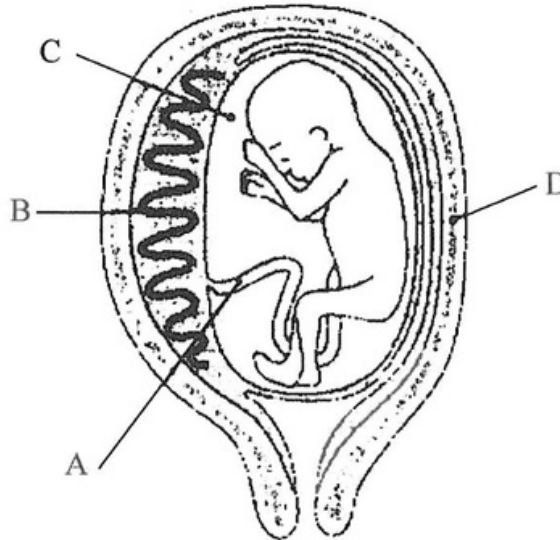
- A P
 B Q
 C R
 D S
31. Which is harmful to the human skin?
- A melanin
 B perspiration
 C ultraviolet rays
 D vitamin D



32. What happens in the urinary system if there is a blockage in the ureters?

- A urine cannot enter the bladder
- B urine changes in colour
- C urine flows out of the bladder
- D urine temperature increases

33. The diagram shows a foetus inside the womb of a woman. Which structure contracts during labour?



34. If a sperm cell containing a Y chromosome fertilises an egg cell, which of these is most likely to be determined?

- A the eye colour of a new born baby
- B the intelligence of a new born baby
- C the sex of a new born baby
- D the size of a new born baby

35. Which row in the table below gives the correct order of the stages of human reproduction?

	occurs first	occurs second	occurs third	occurs fourth
A	birth	ovulation	fertilisation	implantation
B	fertilisation	implantation	ovulation	birth
C	implantation	ovulation	birth	fertilisation
D	ovulation	fertilisation	implantation	birth

36. At which stage in a woman's life does the menstrual cycle cease and periods stop?

- A adolescent
- B ovulation
- C menopause
- D puberty



37. Which list shows all examples of sexually transmitted diseases/infections?
- A asthma, bronchitis and emphysema
 - B chicken pox, measles and mumps
 - C cholera, malaria and typhoid
 - D genital herpes, gonorrhea and syphilis
38. In which structures would a person experience stiffness, spasms or cramps?
- A bones
 - B joints
 - C ligaments
 - D muscles
39. Which **TWO** body organs are most likely to be damaged in an alcoholic?
- A brain and heart
 - B brain and liver
 - C brain and lungs
 - D brain and pancreas
40. Which secondary sexual characteristic occurs in both females and males?
- A eggs mature and are produced
 - B hip broadens and voice changes
 - C shoulders broaden and muscles develop
 - D skin becomes oily and pubic hair grows



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