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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2022**

0055 HEALTH SCIENCE

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

Wednesday **15 June 2022** 1:00 P.M.–2:00 P.M.

INSTRUCTIONS TO CANDIDATES:

- Write your school number, candidate number, name and initials and surname 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:

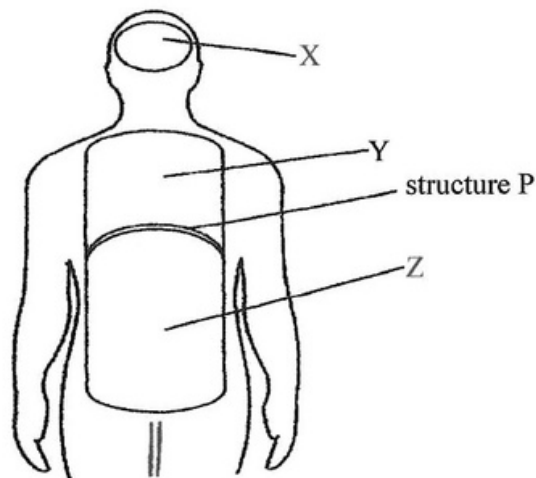
What body system is responsible for transporting oxygen around the body?

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



1. Which body organ is an external organ?
 - A. brain
 - B. liver
 - C. pancreas
 - D. skin
2. What term best describes the area of science which deals with the structure of the human body?
 - A. anatomy
 - B. cytology
 - C. hygiene
 - D. physiology
3. What part of the human skeleton protects the lungs?
 - A. the cranium
 - B. the mandible
 - C. the pelvis
 - D. the rib cage
4. In which parts of the body are immovable joints located?
 - A. the ankle and the wrist
 - B. the knee and the elbow
 - C. the lower jaw and the upper arm
 - D. the skull and the pelvis

The diagram shows the human body cavities. Use the diagram to answer questions 5 and 6.



5. Which shows the body cavities correctly labelled?
- A. X abdominal cavity, Y thoracic cavity, Z cranial cavity
 B. X cranial cavity, Y thoracic cavity, Z abdominal cavity
 C. X cranial cavity, Y abdominal cavity, Z thoracic cavity
 D. X thoracic cavity, Y cranial cavity, Z abdominal cavity
6. Which is a function of the structure labelled P?
- A. to attach organs in the body cavities
 B. to bend and straighten the upper and lower body
 C. to hold and protect organs
 D. to separate the abdominal cavity from the thoracic cavity
7. In which body structure is cardiac muscles found?
- A. arm
 B. eye
 C. heart
 D. lung
8. The picture shows Kai and Nikki carrying out two different activities.



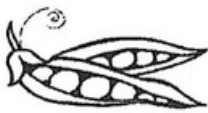
What main characteristic of living things is being carried out in the picture?

- A. growth
 B. movement
 C. nutrition
 D. sensitivity
9. In which body structure would bruises, cramps and spasms be experienced?
- A. bone
 B. cell
 C. muscle
 D. organ



The pictures show samples of beans, carrots, lettuce and oranges. Use the pictures to answer questions 10 and 11.

beans



carrots



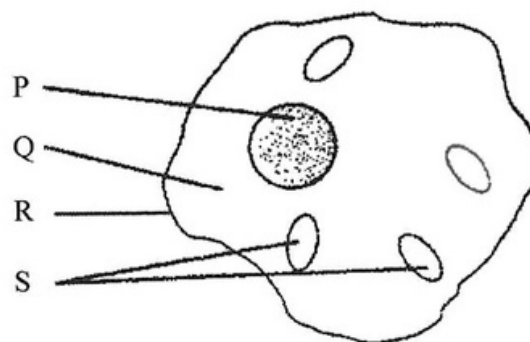
lettuce



orange



10. Which foods listed will be the best source of proteins in a vegetarian's diet?
- beans
 - carrots
 - lettuce
 - oranges
11. Which food listed is most likely to prevent the deficiency diseases night blindness and scurvy?
- beans and carrots
 - carrots and oranges
 - lettuce and beans
 - lettuce and oranges
12. Which digestive juices contain the enzyme amylase?
- bile and saliva
 - gastric juice and saliva
 - pancreatic juice and hydrochloric acid
 - saliva and pancreatic juice
13. The diagram shows structures found in a typical cell in the human body.



Which **two** structures make up the protoplasm?

- P and Q**
- Q and R**
- R and S**
- S and P**



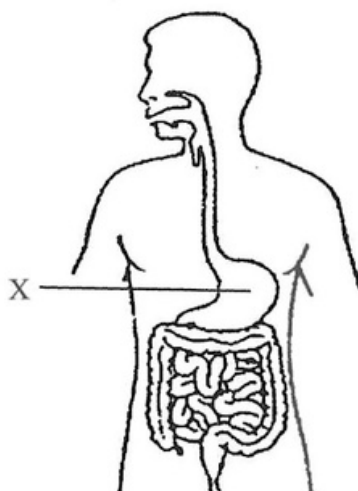
14. Which chemical is added to drinking water to help to prevent tooth decay?
- A. chlorine
 - B. fluorine
 - C. potassium
 - D. zinc
15. The diagram shows a type of tooth found in the human jaw.



What is the function of this type of tooth?

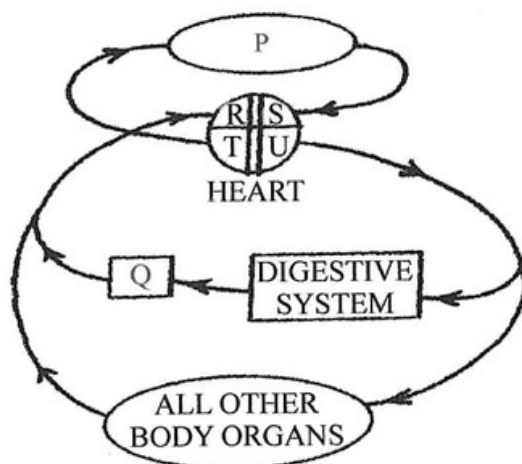
- A. biting food
 - B. biting and grinding food
 - C. chewing and crushing food
 - D. tearing the food
16. Which processes happen to food during ingestion?
- A. absorption and assimilation
 - B. chewing and swallowing
 - C. mastication and digestion
 - D. swallowing and absorption
17. Where in the human body is the pharynx located?
- A. abdomen
 - B. chest
 - C. skull
 - D. throat

The diagram shows the human alimentary canal. Use the diagram to answer questions 18 and 19.



18. What is the name of the structure labelled X?
- oesophagus
 - large intestine
 - small intestine
 - stomach
19. What happens in structure X?
- digested food is absorbed into the blood stream
 - digested food is mixed with digestive juice and stored
 - digested food is churned and mixed into chyme
 - excess water is absorbed from undigested food

The diagram shows a simplified plan of the human circulatory system. Use the diagram to answer questions 20 and 21.

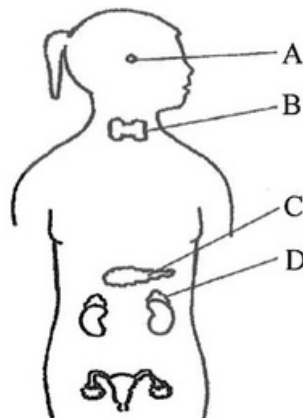


20. What organs are labelled P and Q?
- P is the brain and Q is the kidneys
 - P is the lungs and Q is the liver
 - Q is the lungs and P is the kidneys
 - Q is the pancreas and P is the liver



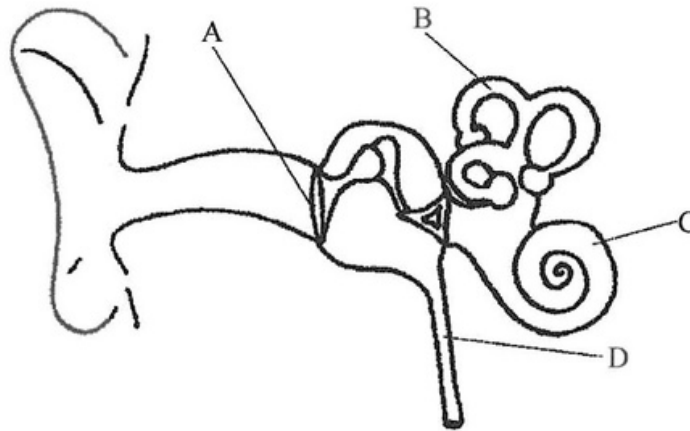
21. What is the name of the blood vessel carrying blood into chamber R?
- aorta
 - pulmonary artery
 - pulmonary vein
 - vena cava
22. What happens to inhaled air in the nasal cavity?
- the air is cleaned and cooled
 - the air is filtered and warmed
 - the volume of the air decreases
 - the volume of the air increases
23. What is the name of the process in which cells use oxygen to break down sugar and release energy?
- breathing
 - exhalation
 - inhalation
 - respiration

The diagram shows the human endocrine system in females. Use the diagram to answer questions 24 and 25.



24. Which gland produces the hormone that controls growth? (Circle your answer on the diagram.)
25. Which gland secretes both a hormone and a digestive juice?
- liver
 - pancreas
 - parathyroid gland
 - pituitary gland

26. The diagram shows the structure of the human ear. Which structure contains the organ of hearing? (Circle your answer on the diagram.)



27. Which statement best describes the function of the tympanic membrane in the human ear?

- A. It connects the ear to the brain.
- B. It joins the ear to the throat.
- C. It provides balance and allows us to hear.
- D. It receives sound waves and transmits them.

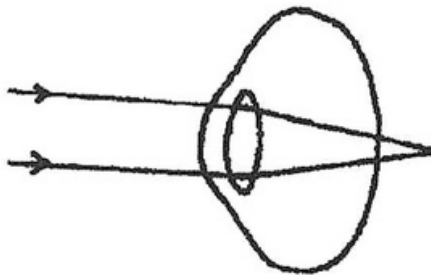
28. When a doctor uses a stethoscope on his patient, what is he trying to find out?

- A. blood pressure
- B. body temperature
- C. heart beat
- D. pulse rate

29. What is the main function of the cornea in the human eye?

- A. absorbs light
- B. reflects light
- C. refracts light
- D. scatters light

30. The diagram shows a defect of the human eye.



Which eye defect is shown in the diagram?

- A. farsightedness
- B. glaucoma
- C. nearsightedness
- D. night blindness

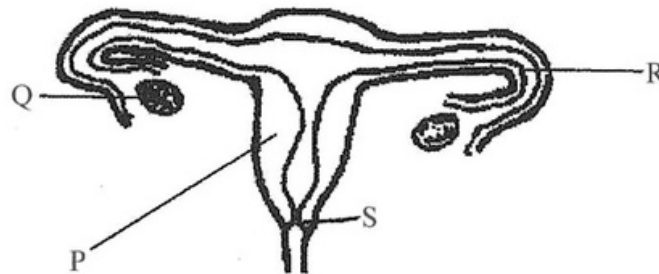


31. A man burns 1197 calories exercising each day. His wife burns 983 calories.

What is the difference in the amount of calories burned between both?

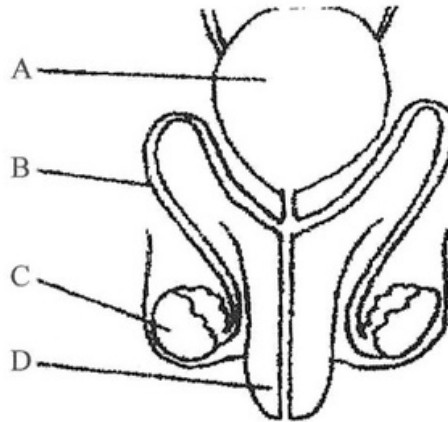
- A. 108
- B. 214
- C. 582
- D. 2180

The diagram shows the female reproductive system. Use the diagram to answer questions 32 and 33.



32. What process occurs in the structure labelled Q?
- A. fertilisation
 - B. menstruation
 - C. ovulation
 - D. pregnancy
33. In which labelled structures do the processes of contraction and dilation occur?
- A. P and Q
 - B. P and S
 - C. Q and R
 - D. R and S
34. What happens in a female's body when the surgical procedure known as a hysterectomy is performed?
- A. cervix is stitched during pregnancy
 - B. fallopian tubes are cut and tied
 - C. lumps are removed from the breast
 - D. uterus is removed

35. The diagram shows some organs of the male reproductive system. Which structure is a part of both the excretory and reproductive systems? (Circle your answer on the diagram.)



36. What do we call the tiny projections covering the tongue near to the taste buds?
- cilia
 - membrane
 - nerves
 - papillae
37. Which organs of the body are referred to as the genitals?
- organs of the circulatory system
 - organs of the endocrine system
 - sense organs
 - sexual organs
38. Which contagious disease affects the lungs?
- asthma
 - bronchitis
 - emphysema
 - tuberculosis
39. Which practice listed below is an oral hygiene practice?
- bathing
 - flossing
 - shampooing
 - steaming
40. Which one below is most likely to be caused from a dry scalp?
- dandruff
 - lesion
 - pimples
 - scabies



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