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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2019**

0055 HEALTH SCIENCE

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

Tuesday **4 June 2019** 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
- ☒ (X) the immune system
- ☐ D the nervous system

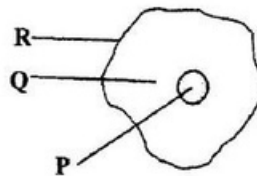


This question paper consists of 10 printed pages.

1. What do we call the smallest unit of life?
 - A cell
 - B tissue
 - C organ
 - D system
2. Which organ protects and prevents bacteria from entering the body?
 - A blood
 - B kidneys
 - C lungs
 - D skin
3. Which body system is located **only** in the abdominal cavity?
 - A circulatory
 - B digestive
 - C endocrine
 - D urinary
4. Which one shows the internal structures of the body and is similar to x-rays?
 - A stethoscope
 - B syringe
 - C thermometer
 - D ultrasound
5. A gymnast falls from a balance beam, hurts her neck and becomes paralysed.
Which system has she damaged?
 - A circulatory
 - B endocrine
 - C immune
 - D nervous
6. Which characteristics of living things enable a baby to develop inside its mother's womb?
 - A excretion and respond
 - B growth and sensitivity
 - C movement and respiration
 - D nutrition and growth
7. How many bones are found in the adult human skeleton?
 - A 106
 - B 206
 - C 226
 - D 602
8. Which structures in the body are made of cartilage?
 - A ear and eye
 - B fingernail and tongue
 - C nose and trachea
 - D teeth and rib



9. Which body cavity is found in the skull?
- A abdominal
B cranial
C pulp
D thoracic
10. Which branch of science deals with ways of keeping the body and the environment clean?
- A anatomy
B biology
C hygiene
D physiology
11. The diagram below represents a typical animal cell.



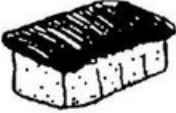
Which row in the table gives the correct name for each part of the cell?

	P	Q	R
A	cell membrane	cytoplasm	nucleus
B	cell membrane	nucleus	cytoplasm
C	nucleus	cytoplasm	cell membrane
D	cytoplasm	cell membrane	nucleus

12. Which food nutrient listed below is **NOT** digested but is needed to keep the body healthy?
- A carbohydrates
B fats
C proteins
D water

13. The diagrams represent the four food groups.

Which food belongs to the milk and dairy food group?

cheese	cabbage	pork chop	white bread
			
A	B	C	D

14. What is the difference in the total number of temporary teeth and the total number of permanent teeth in a human?

A 4
B 8
C 12
D 20

15. Which structure does a dentist remove from a tooth during a root canal to make it less sensitive?

A enamel
B dentine
C nerve
D root

The diagram shows a lady with a swelling in her neck.
Use this diagram to answer questions 16 and 17.



16. Name the deficiency disease shown in the diagram.

A anaemia
B goitre
C rickets
D scurvy

17. Which gland in the neck is enlarged?

A adrenal
B pituitary
C thyroid
D salivary

18. In which structure of the respiratory system are the vocal cords found?

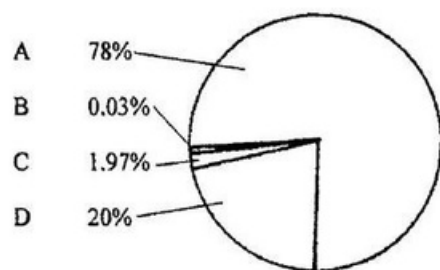
A epiglottis
B larynx
C lung
D pharynx

19. Which shows the correct flow of air into the respiratory system?

A nasal passage → trachea → bronchi → alveoli
B nasal passage → bronchi → trachea → alveoli
C nasal passage → alveoli → bronchi → trachea
D nasal passage → trachea → alveoli → bronchi



20. The pie chart represents the relative percentages of gases in the air.

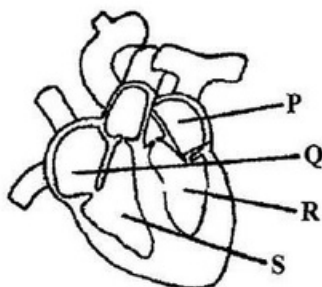


Which process, during breathing, does the percentage of gases shown in the diagram represent?

- A exhalation
 B expiration
 C implantation
 D inhalation
21. In the table below, which row gives the correct information about blood components?

	blood component	function
A	red corpuscle	engulfs and destroy germs
B	white corpuscle	transport of oxygen
C	platelets	formation of blood clot
D	plasma	contains haemoglobin

22. The diagram represents a section of the human heart.



Which chamber of the heart pumps blood from the heart to the lungs?

- A P
 B Q
 C R
 D S

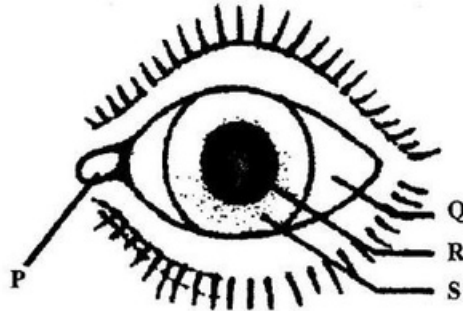


23. Why do hospitals ask people to donate blood?

- 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.

24. The diagram shows the human eye seen from the front.

Which labelled part gives the eye its colour?



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

25. Which term describes a quick movement of the eyelids and lashes?

- A blinking
- B crying
- C steering
- D squinting

26. Sometimes an infection to the ear can cause a person to feel dizzy and lose their balance. Which part of the ear is infected?

- A auditory canal
- B ear drum
- C eustachian tube
- D semicircular canal



27. The diagram shows a portion of the human ear.

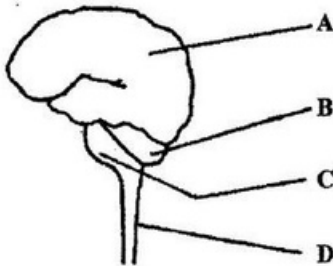
What is the name of the part shown?



- A anvil
- B cochlea
- C eustachian tube
- D pinna

28. The diagram shows the human brain.

Which letter points to the medulla oblongata?

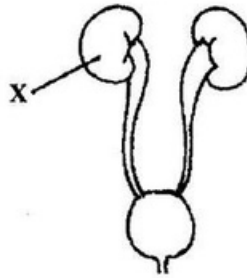


29. Which is a function of the brain?

- A to prevent germs entering the body
- B to control the movement of muscles
- C to produce hormones
- D to transport materials around the body



30. The diagram shows the urinary system.

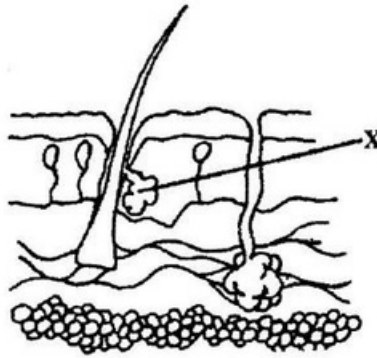


Which organ is labelled X and what is its function?

- A X is the kidney and it filters blood to store urine.
B X is the kidney and it filters blood to produce urine.
C X is a lung and it puts oxygen into the blood.
D X is an ovary and it produces egg cells.
31. A beef burger has 1197 calories and a veggie burger has 983 calories. If James eats 2 beef burgers and Julia eats 2 veggie burgers, how many more calories will James have eaten?
- A 214
B 428
C 966
D 2324
32. Excessive drinking of alcohol would most likely damage which organ in the human body?
- A gullet
B liver
C lung
D stomach
33. When sewing a button on your blouse you accidentally stick your finger with the needle. What do we call the sudden response of pulling your finger away?
- A condition reflex
B learned reaction
C reflex action
D voluntary

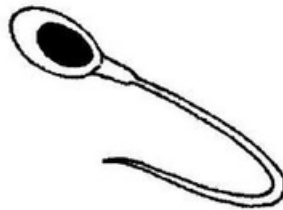


34. The diagram shows the human skin.



What is the name of the part labelled X and what is its function?

- A X is adipose tissue and it stores fat.
 - B X is melanin and it gives skin its colour.
 - C X is the epidermis and it insulates the skin.
 - D X is a sebaceous gland and it makes oil.
35. Which are the symptoms of the flu (influenza)?
- A bleeding gum and teeth
 - B itchy skin and pimples
 - C sore throat and sneezing
 - D swelling and cramping
36. The diagram shows a specialised human body cell.



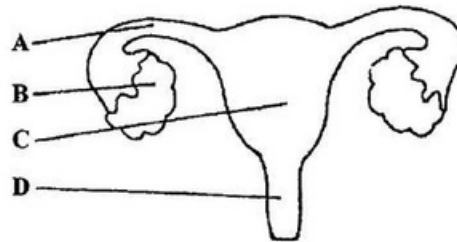
How many chromosomes are found in this cell?

- A 12
 - B 23
 - C 46
 - D 63
37. Jamiko and Jakai are identical twins. What happened during conception?
- A They both developed from the same zygote.
 - B They each developed from a separate zygote.
 - C They each are conceived at different times.
 - D They both were born with different chromosomes.



38. The diagram shows the human female reproductive system.

Which structure is a ductless gland?



39. Which process occurs in the oviduct of the female reproductive system when a sperm cell unites with an egg cell?

A fertilisation
B implantation
C infertility
D insemination

40. Which disease affects the skin with itchy blisters and lasts for a few days?

A anaemia
B chicken pox
C rickets
D ulcer



0055/2

BJC

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QUESTION	MARK
1	
2	
3	
4	
5	
6	
TOTAL	

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**MINISTRY OF EDUCATION
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0055 HEALTH SCIENCE

**PAPER II
(60 Marks)**

Tuesday **4 June 2019** 2:15 P.M.–3:15 P.M.

INSTRUCTIONS TO CANDIDATES:

1. Write your school number, candidate number, surname and initials in the boxes at the top right hand corner of this page.
2. Answer **ALL** questions in the spaces provided.
3. The number of marks available is shown in brackets [] at the end of each question part and at the end of the entire question.

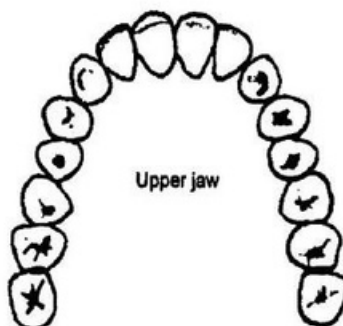


This question paper consists of 8 printed pages.

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[Turn over

1. The diagram shows the arrangement of the permanent teeth in the upper jaw.



- (a) Give **ONE** important function of the teeth.

_____ [1]

- (b) The table below shows information about the human milk teeth (first set of teeth).

Complete the table by filling in the blank spaces.

type of tooth	number in upper and lower jaw	function
incisor		used for biting
	4	
premolars		used for crushing and grinding the food

[4]

- (c) State **ONE** reason why the set of teeth shown in the diagram must be permanent teeth rather than milk teeth.

_____ [1]

- (d) Name the mineral added to drinking water which helps to prevent tooth decay?

_____ [1]

- (e) Complete the paragraph by writing in the missing terms to describe the process of tooth decay.

Choose your answers from these words:

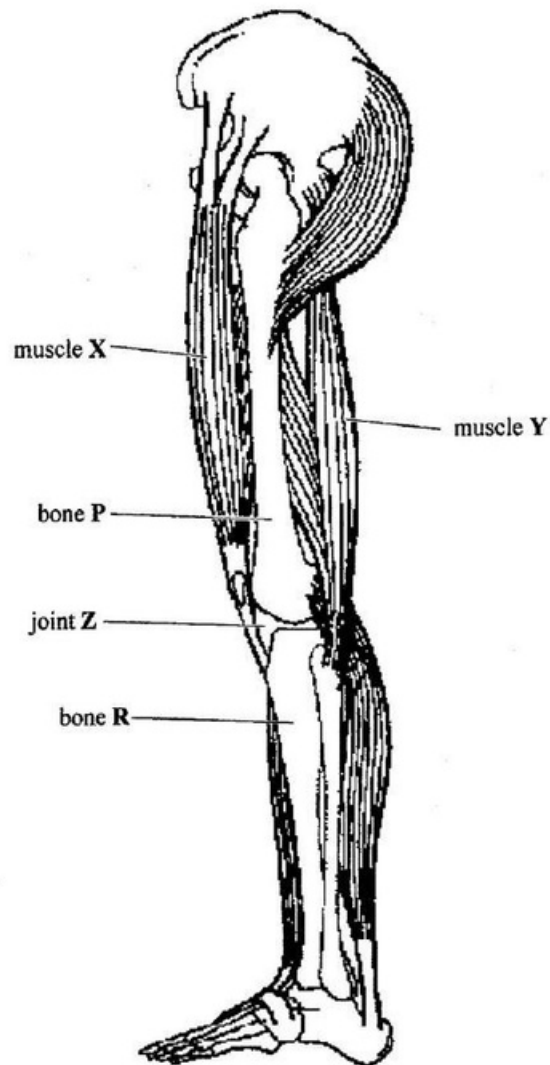
acids dentine calcium nerves sugar

Bacteria feed on _____ left in the mouth producing _____ which break down the tooth structure exposing the _____ causing pain. [3]

TOTAL MARKS [10]



2. The diagram below shows some of the bones and muscles in the human leg.



- (a) Write the names of the bones labelled P and R.

P _____

R _____ [2]

- (b) When the leg bends backwards, what action is carried out by muscles X and Y?

Muscle X _____

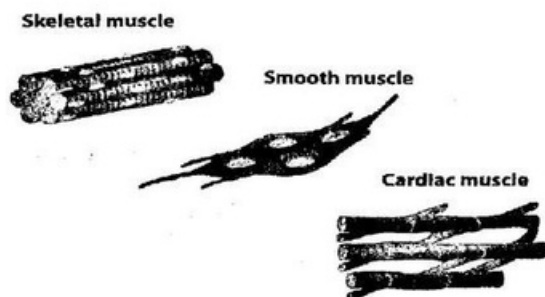
Muscle Y _____ [2]

- (c) Name the type of moveable joint shown at Z.

_____ [1]



The diagram shows the three types of muscle tissues found in the human body.



(d) Which type of muscle, shown in the diagram, is found in the following structures?

- (i) leg _____
- (ii) digestive system _____
- (iii) heart _____ [3]

(e) Muscles can be either voluntary or involuntary.

What is the difference between voluntary and involuntary muscles?

 _____ [1]

(f) Accidents in sports are some of the leading causes of skeletal injuries. One example of such injuries is a fracture.

What is a fracture?

 _____ [1]

TOTAL MARKS [10]



3. **Diagram 1** shows the digestive system and **diagram 2** shows a structure found within one of the organs in this system.

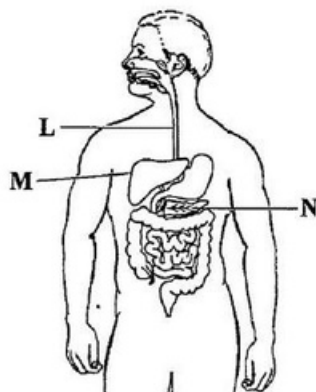


Diagram 1

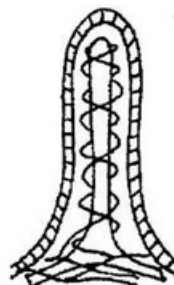
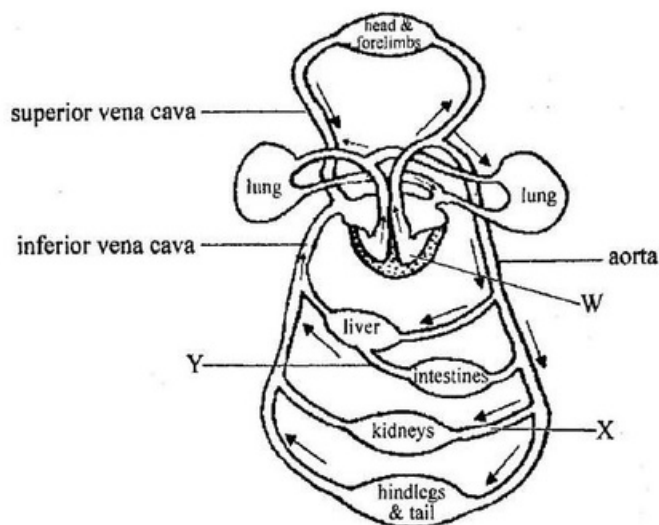


Diagram 2

- (a) Using **diagram 1**, name the structures labelled **L**, **M** and **N**.
- L** _____
- M** _____
- N** _____ [3]
- (b) From **diagram 1**, which letter points to a structure where peristalsis takes place.
- _____ [1]
- (c) (i) Name the structure shown in **diagram 2**.
- _____ [1]
- (ii) Where in the digestive system would you find the structure named in (c)(i)?
- _____ [1]
- (iii) Name the process which occurs in the structure in **diagram 2**.
- _____ [1]
- (d) The process of digestion involves both mechanical and chemical digestion.
- What is mechanical digestion?
- _____
- _____ [1]
- (e) What are the following nutrients broken down into after digestion is completed?
- (i) Protein _____
- (ii) Carbohydrates _____ [2]

TOTAL MARKS [10]

4. The diagram represents the circulatory system.



- (a) Name the blood vessels labelled X and Y and say what type of blood is found in each blood vessel.

structure	name of blood vessel	type of blood present
X		
Y		

[4]

- (b) Organ W is a major component of the circulatory system.

Name this organ and state its main function in the circulatory system.

Name of organ _____

Main function _____ [2]

- (c) Describe **TWO structural** differences between the **aorta** and **vena cava**.

(i) _____

(ii) _____

[2]

- (d) Blood is a fluid which circulates throughout the body with many substances dissolved in it.

- (i) Name the main substance which diffuses out of the lungs into the blood and is transported around the body.

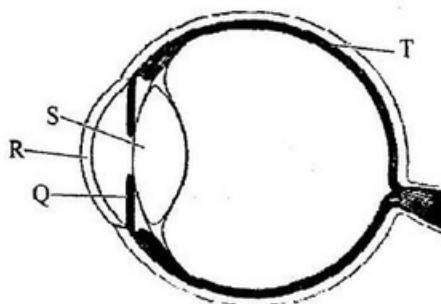
_____ [1]

- (ii) Name the process taking place in the body which uses the substance named in (d)(i).

_____ [1]

TOTAL MARKS [10]

5. The diagram represents a section through the human eye.



- (a) Name the parts labelled Q, R and S.

Q _____

R _____

S _____ [3]

- (b) The structure labelled T on the diagram contains two types of light sensitive cells.

Give the name of structure T and name ONE type of light sensitive cell it contains.

Structure T _____

Name of light sensitive cell _____ [2]

- (c) On the diagram, draw a line to the part of the eye which connects it to the brain and name it.

_____ [1]

- (d) Identify the stimulus which the eyes detect?

_____ [1]

- (e) Lenses are used to correct eye defects.

Name the type of lens shown below and identify the eye defect it is used to correct.



Lens _____

Eye Defect _____ [2]

- (f) Conjunctivitis is a contagious disease which affects which labelled eye structure.

_____ [1]

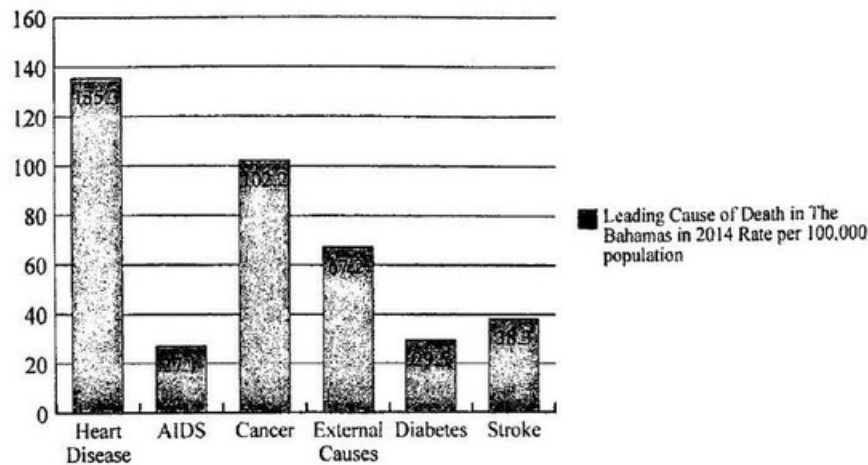


TOTAL MARKS [10]

6. The graph shows six diseases which accounts for the leading cause of death in The Bahamas in 2014.

Use the graph to help you answer the questions which follow.

Leading Cause of Death in The Bahamas in 2014
Rate per 100,000 population



External causes include accidents, violence and poisonings

- (a) (i) Name the disease which accounts for the leading cause of death.
_____ [1]
- (ii) In 2014, how many more persons died from cancer than stroke?
_____ [1]
- (b) From the graph, identify the disease which is most likely to be caused from each of the following:
- (i) excess sugar in the blood _____
- (ii) fatty deposits on the walls of the arteries _____
- (iii) having sex with an infected partner _____
- (iv) a lack of a continuous supply of oxygen to the brain _____ [4]
- (c) AIDS is described as a sexually transmitted disease.
- (i) What do the letters 'AIDS' stand for?
_____ [1]
- (ii) Name the organism which causes this disease.
_____ [1]
- (d) Suggest **TWO** ways Bahamians can develop a healthy lifestyle.
- 1 _____
- 2 _____ [2]

