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QUESTION	MARK
1	
2	
3	
4	
5	
6	
TOTAL	

SCHOOL No.	CANDIDATE No.
NAME AND INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2023

0055 HEALTH SCIENCE

PAPER II (60 Marks)

Monday **5 June 2023** 2:15 P.M.–3:15 P.M.

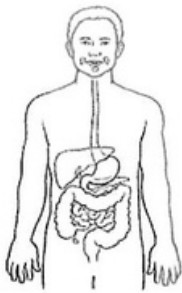
INSTRUCTIONS TO CANDIDATES:

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 **10** printed pages and **2** blank pages.

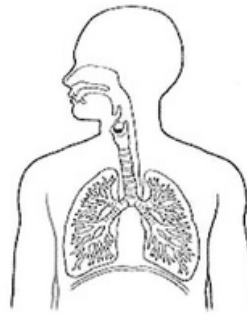
1. The diagrams below show four main systems in the human body. Use them to help you to answer the questions below.



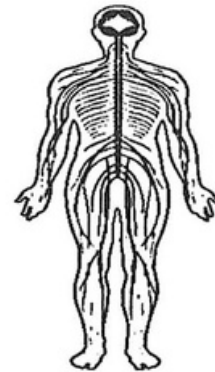
System W



System X



System Y



System Z

- (a) Define the term system.

_____ [1]

- (b) Name the body systems represented by the letters **W**, **X** and **Y**.

W _____

X _____

Y _____ [3]

- (c) State the function of body systems **X** and **Y**.

X _____

Y _____ [2]

- (d) (i) Living things have the ability to respond to changes in the environment. This characteristic is called irritability. Name the body system which responds to changes in the environment.

_____ [1]

- (ii) What is the main organ found in the body system named above in part (d) (i)?

_____ [1]

- (e) Name **TWO** body systems shown above, which work together to produce the energy the body needs?

1 _____

2 _____ [2]

TOTAL MARKS [10]



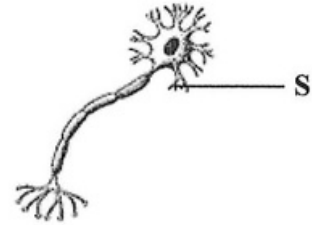
2. The diagrams below represent specialised cells found in the human body.



Cell X



Cell Y



Cell Z

- (a) Name the specialised cells labelled **X** and **Y** and state the function of each cell.

cell type	name of cell	function of cell
Y		
Z		

[4]

- (b) Why does the body have specialised cells?

_____ [1]

- (c) (i) Name the structure labelled **S** on **cell Z** and state its function?

Name _____ [1]

- (ii) Function

_____ [1]

- (d) (i) Which of the specialised cells, shown in the diagrams above, does not contain a nucleus?

_____ [1]

- (ii) Why is there no nucleus present in this cell?

_____ [1]

- (e) What is formed when similar cells are joined together?

_____ [1]

TOTAL MARKS [10]

3. The diagrams below show the types of teeth in the lower jaw of the mouth and the structure of a tooth.

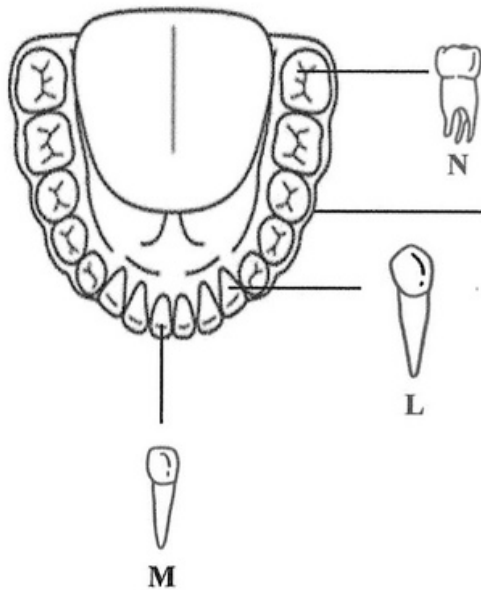


Figure 1

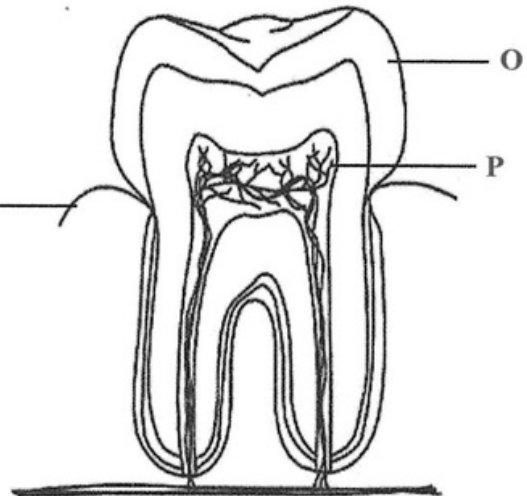


Figure 2

- (a) Identify the set of teeth shown in Figure 1 and give a reason for your answer.

Set of teeth _____ [1]

Reason _____ [1]

- (b) Complete the table below by filling in the blank spaces.

	name of tooth	function
L	canine	
M		
N		Crushing

[4]

- (c) In Figure 2, structure P shows a type of tissue that transmits messages to the brain when you eat a frozen popsicle. Give the name of this tissue.

_____ [1]

- (d) (i) What is the name of the tough, hard substance that covers the tooth?

_____ [1]

- (ii) Give the name of a chemical substance that will erode or cause damage to the covering named in (d) (i).

_____ [1]



- (iii) State **ONE** way to care for your teeth.

_____ [1]

TOTAL MARKS [10]

4. Mary purchased a sandwich combo for her lunch at a restaurant. The sandwich contained the following food and their energy values as shown in the table below.

food	energy (kJ)
2 slices of brown bread	760
1 teaspoon of mayonnaise	354
3 slices of ham	783
2 leaves of lettuce	35
1 slice of tomato	43
1 apple	410
milk	820
Total	_____

- (a) (i) Calculate the total amount of energy contained in Mary's sandwich.
 _____ [2]
- (ii) If 3 slices of ham in Mary's lunch provide 783kJ of energy, what will be the energy value for *one* slice?
 _____ [1]
- (b) (i) Which foods would be the best source of each of the following nutrients in Mary's lunch?
 Carbohydrates _____
 Protein _____ [2]
- (ii) Which food listed above would supply Mary with the most calcium?
 _____ [1]
- (iii) Name the deficiency disease caused by a lack of calcium in the diet.
 _____ [1]
- (iv) Which food contained in the sandwich would help to prevent constipation?
 _____ [1]
- (c) State the importance of the nutrient protein in the body.
 _____ [1]



- (d) Explain why Mary's sandwich is considered a balanced diet.

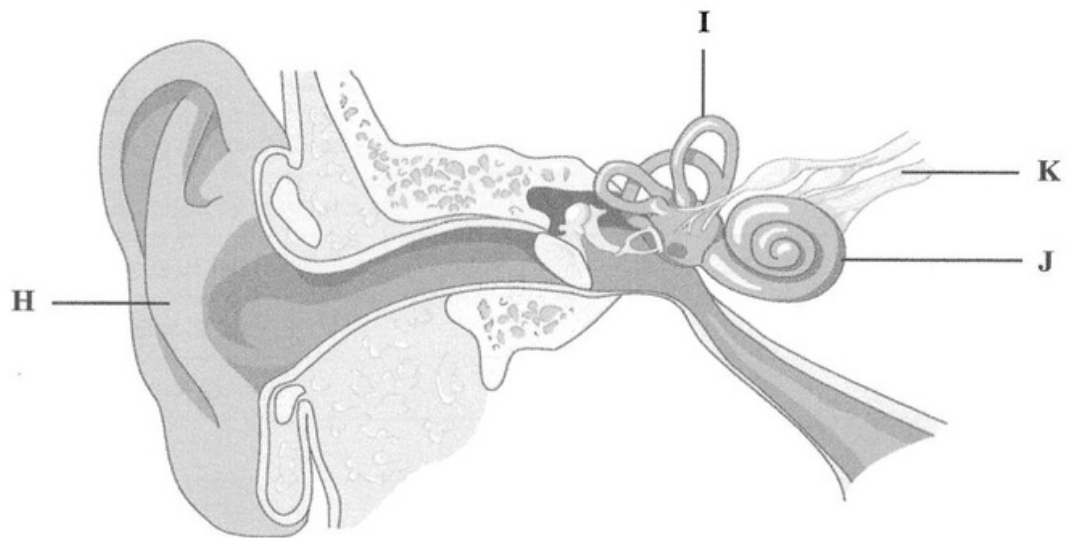
[1]

TOTAL MARKS [10]



[Turn over

5. The diagram below shows the structure of the human ear. Use it to help you to answer the questions below.



- (a) Name the parts of the ear labelled **H**, **I** and **K**.

H _____

I _____

K _____ [3]

- (b) Identify the parts of the ear responsible for:

(i) Balance _____

(ii) Trapping sound waves _____

(iii) Converting sound waves into impulses _____ [3]

- (c) What is the name of the smallest bones in the ear?

_____ [1]

- (d) What type of tissue is the pinna or ear lobe made of?

_____ [1]

- (e) State why sharp objects should **NOT** be placed into the ear.

_____ [1]

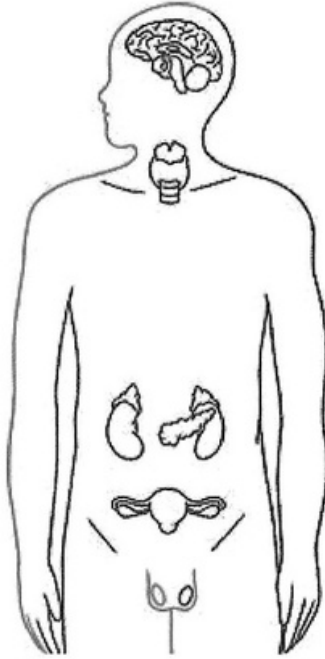
- (f) On the diagram, draw a line to the structure that equalises air pressure in the ear. Label the line **L**.

[1]

TOTAL MARKS [10]



6. The diagram below shows the endocrine system.



- (a) (i) On the diagram, place the letter X on the gland that produces the female sex hormones. [1]
 (ii) Name the gland responsible for secreting female sex hormones.
 _____ [1]
- (b) (i) Define puberty.
 _____ [1]
 (ii) Identify **TWO** secondary sexual characteristics common to both males and females.
 1 _____
 2 _____ [2]
- (c) Peter was walking home when he was approached by a stray animal. He ran to escape from being attacked by the animal.
 (i) Give the name of the hormone which would help him to escape.
 _____ [1]
 (ii) Name the gland that produces this hormone.
 _____ [1]

- (d) Dora has been urinating often, lacks energy, is feeling tired and weak. When her urine was tested, glucose was found in her urine.

(i) State the name of the disease Dora is most likely to have.

_____ [1]

(ii) Which of her gland was not working properly?

_____ [1]

(iii) Name the hormone secreted by the gland named in (e) (ii).

_____ [1]

TOTAL MARKS [10]



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