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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 2022

0055 HEALTH SCIENCE

PAPER II (60 Marks)

Wednesday **15 June 2022** 2:15 P.M.–3:15 P.M.

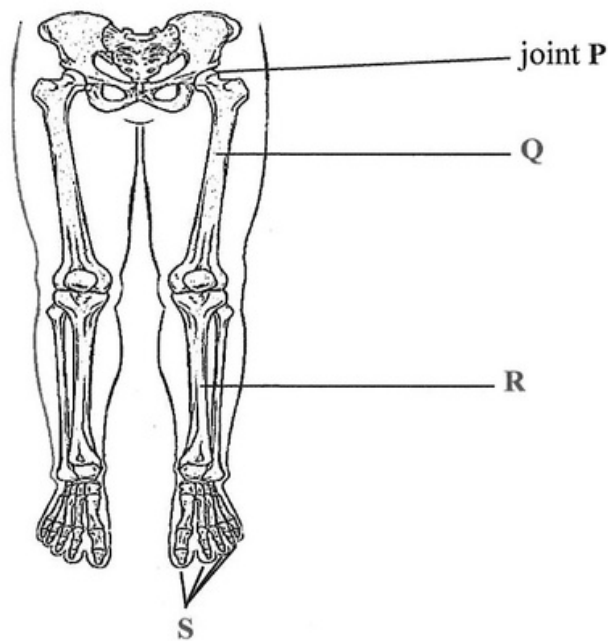
INSTRUCTIONS TO CANDIDATES:

1. Write your school number, candidate number, name and initials and surname 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 diagram shows the lower portion of the human skeletal system.



- (a) State **TWO** functions of the human skeletal system.

1 _____
 2 _____ [2]

- (b) Give the scientific names for the bones labelled **Q**, **R** and **S**.

Q _____
R _____
S _____ [3]

- (c) Name **TWO** minerals needed to form strong hard bones.

1 _____
 2 _____ [2]

- (d) (i) State the name of joint **P** on the diagram.

_____ [1]

- (ii) During a baseball game Tim was sliding to third base and the bones at joint **P** came apart. What is the name given to this type of skeletal injury?

_____ [1]

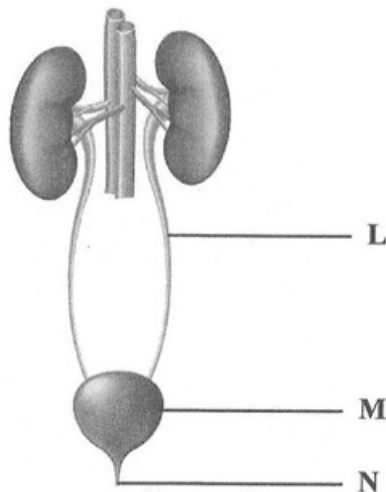
- (e) How many bones are there in an adult human skeleton?

_____ [1]

TOTAL MARKS [10]



2. The diagram shows the human urinary system.



- (a) Name the parts labelled **L**, **M** and **N**.

L _____
M _____
N _____ [3]

- (b) State **ONE** function of the kidneys?

_____ [1]

- (c) (i) Name **TWO** main substances found in urine.

1 _____
 2 _____ [2]

- (ii) Describe the colour of urine when the body is hydrated and dehydrated.

hydrated _____
 dehydrated _____ [2]

- (iii) Name the muscle that prevents urine from leaving the bladder until you are ready to urinate.

_____ [1]

- (d) Sam's kidneys do not work properly so his doctor puts him on a treatment where a machine does the work of the kidneys.

What is the name of this treatment?

_____ [1]

TOTAL MARKS [10]

3. The question below is on the human blood.

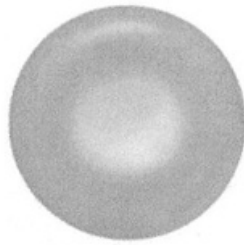
- (a) The human blood has several functions. One function of the blood is to keep the body at the right temperature.

State **TWO** other functions of blood.

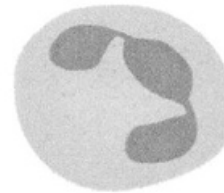
1 _____

2 _____ [2]

- (b) The diagram below shows two types of blood cells, cell A and cell B.



cell A



cell B

- (i) Write the name of cell A and cell B.

Name of cell A _____

Name of cell B _____ [2]

- (ii) State **ONE** function of cell B.

_____ [1]

- (iii) State **ONE** structural difference between cell A and cell B.

_____ [1]

- (c) A blood transfusion is the transfer of blood or blood components from one person (a donor) to another person (a recipient).

Sally has type A blood. Name **ONE** other blood type that can be safely given to her if she needs a blood transfusion.

_____ [1]



- (d) Hospitals usually have donated blood or blood components stored in case of emergencies.

State the name of the place in hospitals where this donated blood is stored.

_____ [1]

- (e) Blood leaving the body cells contain less oxygen and more carbon dioxide.

What term is used to describe this type of blood leaving the body cells?

_____ [1]

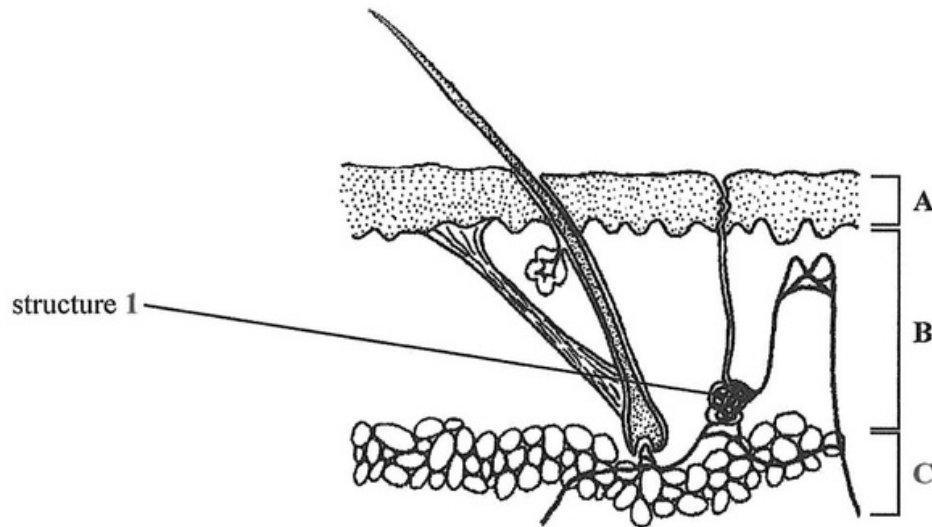
- (f) John has 5 litres of blood. The blood is filtered by the kidneys 250 times a day. How many litres of blood are filtered each day?

_____ [1]

TOTAL MARKS [10]



4. The diagram shows a section of the human skin. Use the diagram to help you answer the questions.



- (a) The skin consists of three main layers. Complete the table below by filling in the empty boxes with the name of the layers and their functions.

letter	name of layer	function of layer
A	epidermis	
B		thick, soft, inner layer that gives the skin its flexibility and strength.
C	subcutaneous (fat)	

[3]

- (b) The human skin has several functions. One function is excretion. Structure 1 on the diagram allows the skin to perform its excretory function.

- (i) What is the name of structure 1?

_____ [1]

- (ii) Name the excretory product produced by structure 1.

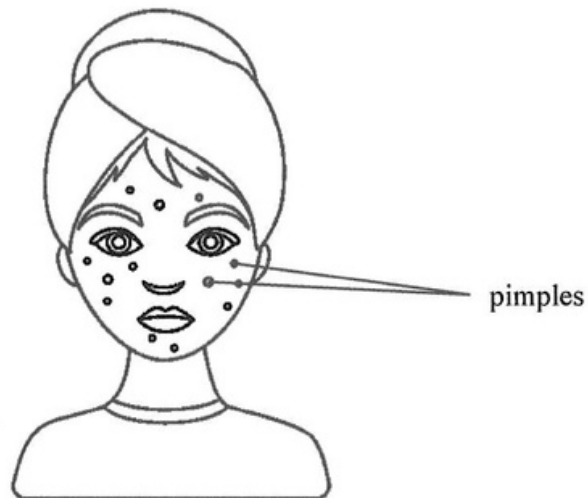
_____ [1]

- (iii) What happens to this excretory product, produced by structure 1, when it gets to the surface of the skin?

 _____ [1]



- (c) (i) On the diagram, draw a line to the erector muscle and label the line **Z**. [1]
- (ii) State what happens to the hair when the erector muscle contracts.
- _____
- _____ [1]
- (d) The picture shows a lady's face with a skin disorder. This disorder is characterised by pimples and is very common among young people during puberty.



- (i) Name the skin disorder shown in the picture.
- _____ [1]
- (ii) The over-production of skin oil, or sebum, can contribute to this disorder. Name the structure in the diagram which produces sebum?

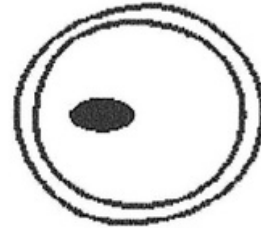
_____ [1]

TOTAL MARKS [10]

5. The diagrams show the two types of sex cells found in humans. Use the diagrams to help you to answer the questions which follow.



cell 1



cell 2

- (a) (i) What is the scientific name for sex cells?

_____ [1]

- (ii) Complete the table below by stating the name of each sex cell and the gender.

cell	name of cell	gender
1		
2		

[4]

- (b) The number of chromosomes in a sex cell is different from the number in regular body cells. How many chromosomes are found in a sex cell?

_____ [1]

- (c) (i) During reproduction sex cells fuse. What term is used to describe this process?

_____ [1]

- (ii) Where in the female reproductive system does the process named in (c) (i) take place?

_____ [1]

- (iii) When sex cells fuse, a new structure is formed. What is the name of the new structure formed?

_____ [1]

- (d) Chromosomes are thread-like structures found in a cell. In which part of a cell are chromosomes found?

_____ [1]

TOTAL MARKS [10]



6. The question below is on the nervous system.

- (a) The nervous system is one of the main systems of the human body. State the function of the nervous system.

_____ [2]

The diagrams below represent two types of neurons.

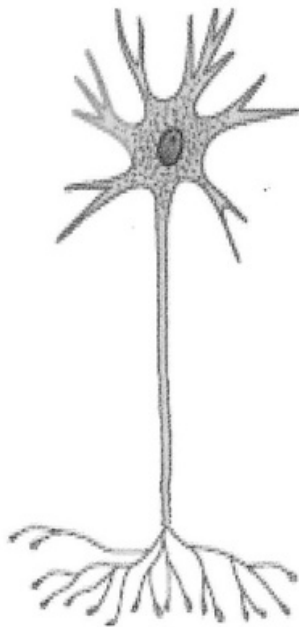


diagram R

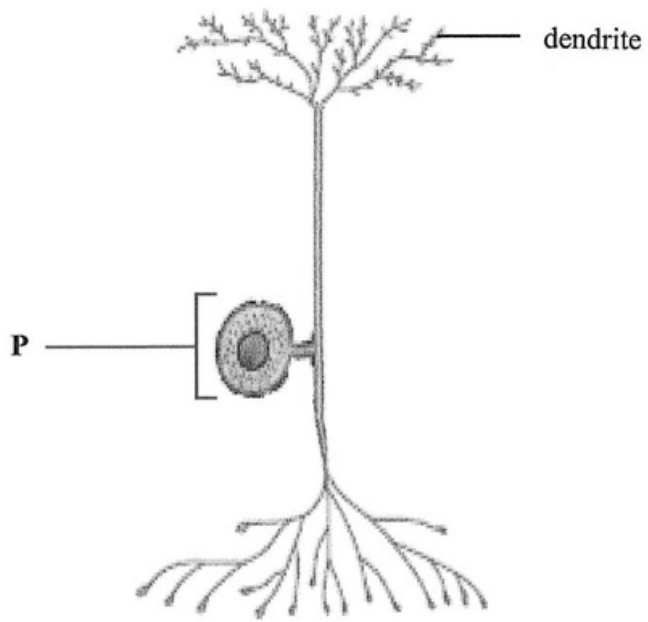


diagram S

- (b) (i) State the names of the neurons labelled diagram R and diagram S.

R _____

S _____ [2]

- (ii) What is the function of the neuron in diagram R?

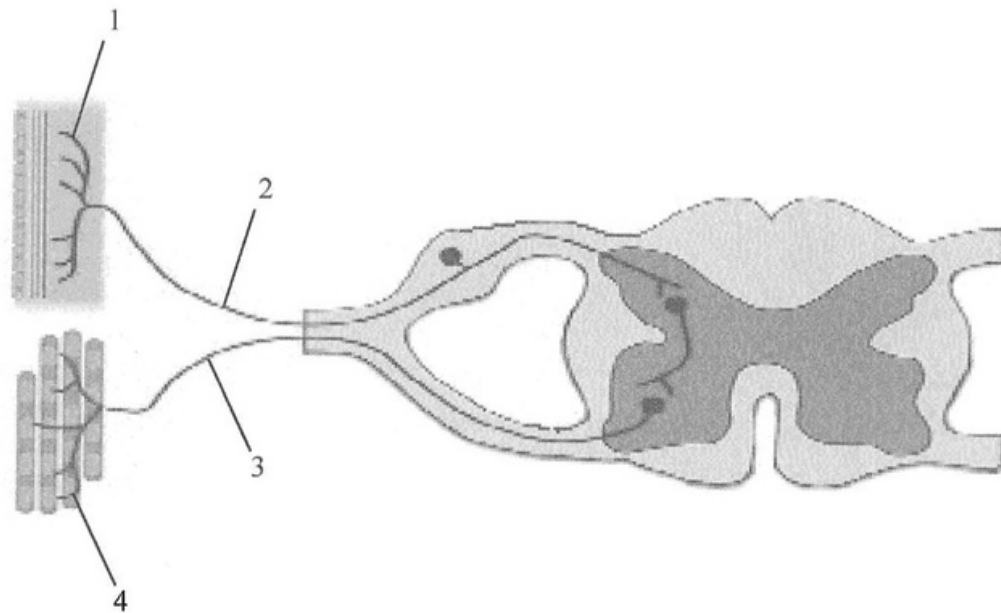
_____ [1]

- (iii) Name the structure labelled P on diagram S.

_____ [1]

- (d) The diagram represents a reflex arc.

Using words from the list below, write the names of the parts which show the correct direction in which an electrical impulse will travel to bring about a reflex action.



Word list: effector sensory neuron receptor motor neuron

1. _____
2. _____
3. _____
4. _____ [4]

TOTAL MARKS [10]



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