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FOR EXAMINERS' USE ONLY	
QUESTION	MARK
1	
2	
3	
4	
5	
6	
TOTAL	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2020

0055 HEALTH SCIENCE

**PAPER II
(60 Marks)**

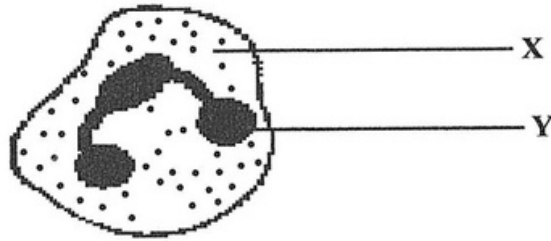
Tuesday **2 June 2020** 2:15 P.M.–3:15 P.M.

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.



1. The diagram shows a specialised human body cell as seen under a microscope.

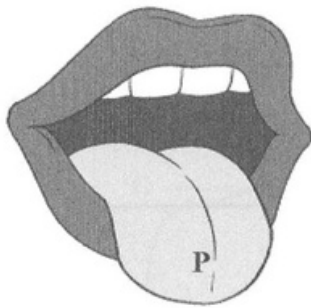


- (a) Name the specialised cell shown in the diagram and state its function.
- (i) name _____
- (ii) function _____ [2]
- (iii) Name the system to which the cell shown in the diagram belongs. _____ [1]
- (b) (i) Name the parts labelled X and Y in the diagram.
- X _____
- Y _____ [2]
- (ii) State the function of the part labelled Y. _____ [1]
- (c) Fill in the blanks using the correct words from the list below. Each word may be used once or not at all.
- tissue cell membrane protoplasm cytoplasm organisms nucleus**
- All _____ are made up of basic units called cells. The living material inside the cell is called the _____. Each cell is protected by a _____ which controls what enters and leaves it. A group of similar cells form a _____. Several different organs work together to form a system. [4]

TOTAL MARKS [10]



2. The diagram below represents three of the five sense organs found in the human body.



Tongue



Nose

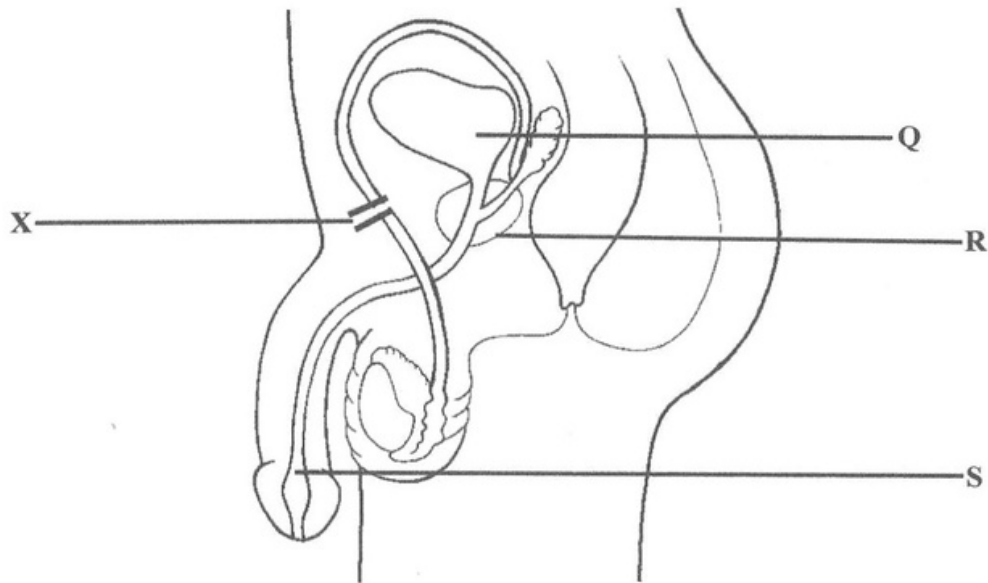


Ear

- (a) All sense organs respond to stimuli. Name the stimulus to which the following sense organs are sensitive:
- (i) tongue _____
- (ii) ears _____ [2]
- (b) Sense organs send electrical impulses to the brain. Name the sense organ which is connected to the brain by the following nerves:
- (i) auditory nerve _____
- (ii) olfactory nerve _____ [2]
- (c) Name the taste area labelled **P** on the diagram of the tongue?
- _____ [1]
- (d) The surface of the tongue is covered with tiny projections which make it look rough. What is the name of these tiny projections?
- _____ [1]
- (e) List **TWO** important functions of the ears.
- 1 _____
- 2 _____ [2]
- (f) The nostrils contain mucous membrane lined with tiny hairs. What is the name of these tiny hairs and what is their function?
- name: _____ [1]
- function: _____
- _____ [1]

TOTAL MARKS [10]

3. The diagram represents the male reproductive system.



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

Q _____

R _____

S _____ [3]

- (b) Two fluids pass through the structure labelled **S** on the diagram. State the names of these **TWO** fluids.

1 _____

2 _____ [2]

- (c) What is the function of the foreskin on the penis?

 _____ [1]

- (d) Why are the testes located on the outside of the body?

 _____ [1]

- (e) State **TWO** changes which take place in boys during puberty.

1 _____

2 _____ [2]

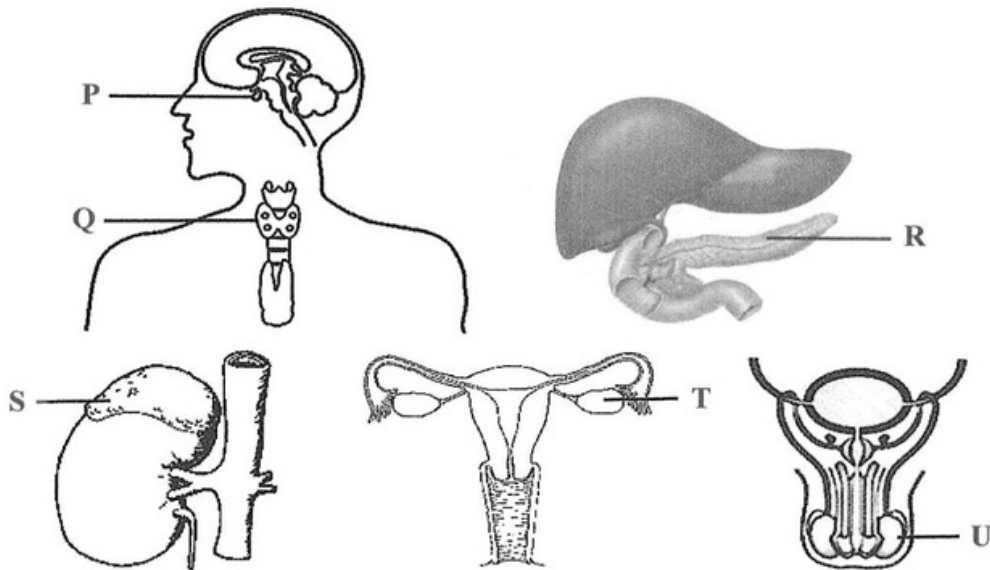
- (f) The section labelled **X** on the diagram shows where a simple medical procedure was performed. What term is used to describe this simple medical procedure?

_____ [1]

TOTAL MARKS [10]



4. The diagrams represent the endocrine glands found in the human body.



- (a) Name the endocrine glands labelled **R**, **S** and **T**.

R _____

S _____

T _____ [3]

- (b) Complete the table below by writing in the names of the hormones produced by glands **Q**, **R** and **U**. [3]

gland	hormone
Q	
R	
U	

- (c) Which letter on the diagram points to the gland that produces the hormone which prepares the body for physical action?

_____ [1]

- (d) Endocrine glands are called “ductless glands”. These glands produce hormones. How do these hormones get from the glands where they are produced to the cells they affect?

_____ [1]

- (e) (i) What is the function of insulin in the body?

_____ [1]

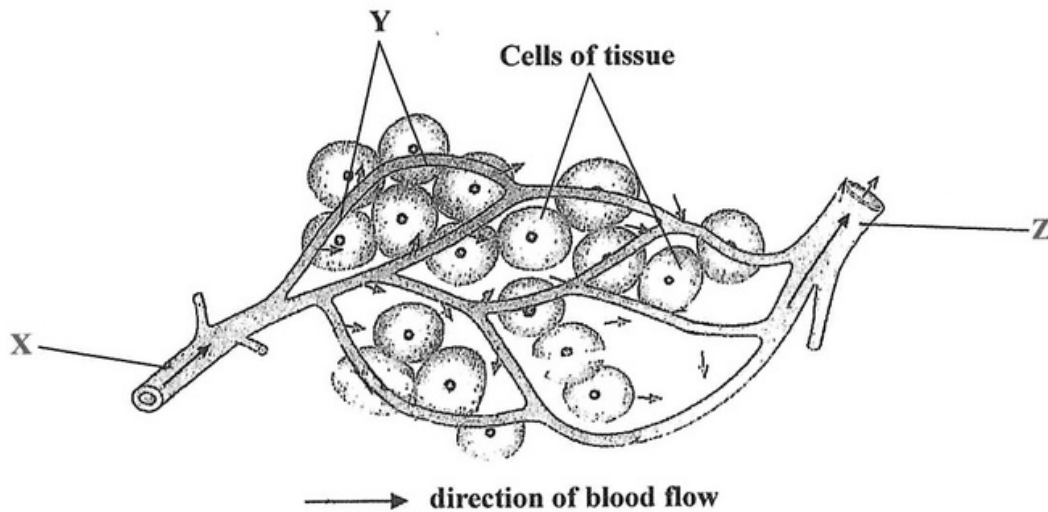
- (ii) Name the disease that affects people who do **not** produce an adequate amount of insulin.

_____ [1]

TOTAL MARKS [10]

[Turn over

5. The diagram shows the three types of blood vessels found in the human body. Examine the diagram carefully and answer the questions which follow.



- (a) Name the blood vessels labelled X, Y and Z.

X _____

Y _____

Z _____ [3]

- (b) In the table below use the letters X, Y and Z to indicate the blood vessel which fits each description.

Letter		Description of blood vessel
(i)		thick muscular and elastic walls
(ii)		one cell layer thick
(iii)		large lumen or opening
(iv)		blood usually travels at high pressure
(v)		contains valves

[5]

- (c) Name **ONE** substance which leaves:

- (i) blood vessel Y and goes into the body cells.

_____ [1]

- (ii) the body cells and goes into blood vessel Y.

_____ [1]

TOTAL MARKS [10]



6. Many food products contain labels. Each label gives the nutritional facts for that particular food product. Examine the food label below and answer the questions which follow.

Pretzels

Nutrition Facts

Serving Size 45 g / 1.6 oz. (2 Pieces)
Servings Per Container 6

Amount Per Serving	
Calories	130
Calories from Fat	70
% Daily Value*	
Total Fat 7g	11%
Saturated Fat 3g	15%
Trans Fat 0g	
Cholesterol 15mg	5%
Sodium 260mg	11%
Total Carbohydrate 12g	4%
Dietary Fiber 0g	0%
Sugars 2g	
Protein 5g	
Vitamin A 0%	Vitamin C 0%
Calcium 4%	Iron 4%

* Percent Daily Values are based on a 2,000 calorie diet.

INGREDIENTS: PRETZEL ROLL (ENRICHED BLEACHED WHEAT FLOUR [BLEACHED WHEAT FLOUR, MALTED BARLEY FLOUR, NIACIN, REDUCED IRON, THIAMINE MONONITRATE, RIBOFLAVIN, FOLIC ACID], WATER, BROWN SUGAR, VEGETABLE SHORTENING [PALM OIL], YEAST, MALT, SALT, BICARBONATES AND CARBONATES OF SODA), BEEF AND CHEDDAR CHEESE HOTDOG (BEEF, WATER, PASTEURIZED PROCESSED CHEDDAR CHEESE [CULTURED MILK, WATER, CREAM, SKIM MILK, SALT, SODIUM PHOSPHATE, SORBIC ACID (PRESERVATIVE), ARTIFICIAL COLOR, ENZYMES], DEXTROSE, SALT, CORN SYRUP SOLIDS, SODIUM LACTATE, SPICES INCLUDING MUSTARD, SODIUM DIACETATE, SODIUM ERYTHORBATE, FLAVORINGS, EXTRACTIVES OF PAPRIKA, SODIUM NITRITE). CONTAINS WHEAT AND MILK

- (a) Which food nutrient accounts for the highest amount of grams in this food product?
_____ [1]
- (b) (i) How many pretzel pieces should you find in this package?
_____ [1]
- (ii) If three friends bought this container of pretzels and shared it equally among themselves, how many pieces will each friend receive?
_____ [1]
- (iii) What will be the total number of calories obtained by each friend when he would have eaten all of his pieces?
_____ [1]

- (c) Why would these pretzels **not** be a healthy snack for a person suffering from hypertension or high blood pressure?
_____ [1]
- (d) (i) This snack contains iron. Name the food nutrient to which iron belongs.
_____ [1]
- (ii) Name the deficiency disease that can result from a lack of iron.
_____ [1]
- (e) Protein is an important food nutrient in the diet. Explain why the body needs proteins and list **ONE** food source rich in protein.
Why we need protein: _____

Food source rich in protein: _____ [2]
- (f) Which nutrient accounts for approximately 70% of the body's mass?
_____ [1]

TOTAL MARKS [10]

