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QUESTION	MARK
1	
2	
3	
4	
5	
6	
TOTAL	

SCHOOL No.	CANDIDATE No.
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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION

0047 GENERAL SCIENCE PAPER 2 STRUCTURED QUESTIONS (60 Marks)

Thursday **28 May 2020** 2:15 P.M.–3:15 P.M.

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials in the spaces provided at the top right hand side of this page.

Answer **ALL** questions in the spaces provided.

Calculators are NOT permitted.



This question paper consists of 7 printed pages and 1 blank page.

1. The diagram shows some safety symbols found in the science lab. Study the diagram and answer the questions which follow.



A

A



B

B



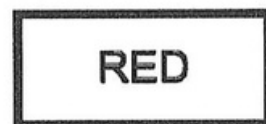
F

C



E

D



- (a) What do the following safety symbols represent?

(i) symbol A _____

(ii) symbol B _____

(iii) symbol E _____

(iv) symbol F _____

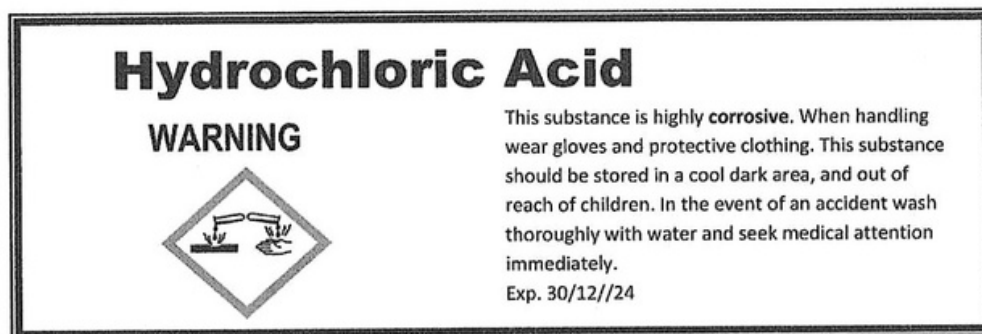
[4]

- (b) In the science lab, colours give us safety information.

What safety message does the colour **RED** give? _____

[1]

Study the warning label below then use it to answer the questions which follow.



- (c) (i) Write the formula for this substance.

_____ [1]

- (ii) What does the safety symbol displayed on the label represent?

_____ [1]

- (iii) What should be done if there is an accident when using this substance?

_____ [1]

- (iv) Why should this substance be stored in a cool, dark area?

_____ [1]

- (v) This substance is said to be highly **corrosive**. What does this mean?

_____ [1]

TOTAL MARKS [10]



2. The diagram **P** shows a whole leaf and diagram **Q** shows the cross-section of a leaf with specialised cells.



diagram **P**

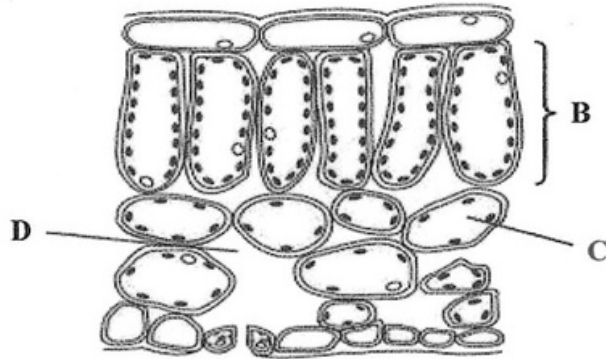


diagram **Q**

- (a) (i) What is the main function of a leaf?
 _____ [1]
- (ii) Name **ONE** substance needed by a leaf to carry out its main function.
 _____ [1]
- (b) Using letters from diagram **Q** identify the following:
- (i) structure which absorbs the most sunlight _____ [1]
- (ii) structure where gases circulate _____ [1]
- (c) Name the cell organelle which allows absorption of sunlight to take place.
 _____ [1]
- (d) Name the structure in the leaf which controls what enters and exits the leaf.
 _____ [1]
- (e) **TWO** types of cells make up the vascular bundle. Complete the table below by filling in the blank spaces.

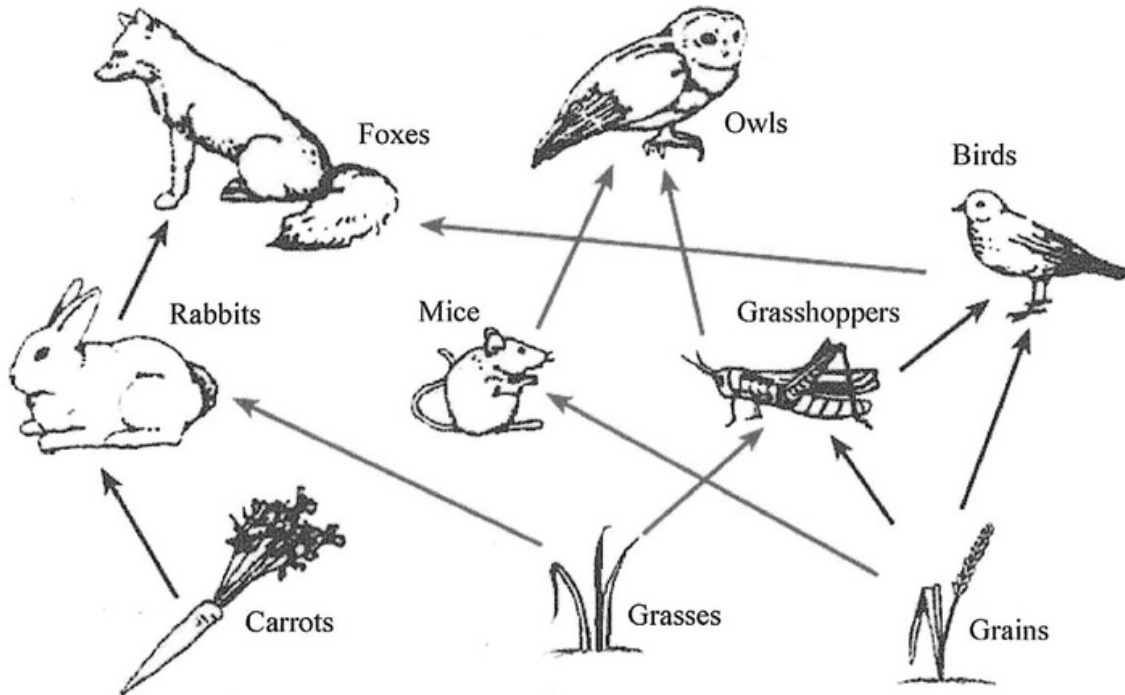
cell type	function
xylem	
	carries food throughout the plant

- (f) On diagram **P**, draw lines to the **petiole** and **mid-rib** and label them. [2]

TOTAL MARKS [10]



3. The diagram shows a food web found in a back yard garden.



- (a) From the food web shown in the diagram name:

- (i) a producer _____
- (ii) a carnivore _____
- (iii) an omnivore _____
- (iv) a herbivore _____ [4]

- (b) (i) Define the term population.

 _____ [1]

- (ii) What would happen to the mice and grasshopper populations if the owl population died out?

 _____ [2]

- (c) Construct a food chain using an **arthropod**, a **bird** and a **mammal** from the food web drawn above. [3]

TOTAL MARKS [10]



4. The chart shows the daily intake of certain food nutrients and the calorie intake of an average adult male and four other males. Study the chart and answer the questions.

average	adult man	Bobby	Tom	Harry	Peter
calories taken in	3000	1000	2750	4500	2500
calories used	2600	850	1500	4000	3000
protein	87 g	37 g	102 g	124 g	73 g
iron	12 mg	6.5 mg	3 mg	12 mg	12 mg
calcium	0.8 mg	1.0 g	1.5 g	0.8 g	0.6 mg
vitamin D	0	800 i.u.	600 i.u.	0	0

- (a) What is the average caloric intake of an average adult male?
_____ [1]
- (b) Name the person who consumes:
(i) the largest amount of calories _____
(ii) the least amount of proteins _____ [2]
- (c) Calculate the difference in calorie intake between the person with the greatest and the least amounts of calories used.
_____ [1]
- (d) Harry burns a lot of calories because of the type of work he does. Suggest the type of work Harry does?
_____ [1]
- (e) Suggest which person would lose the most weight after a period of time?
Explain why.

_____ [2]
- (f) Identify the deficiency diseases that may result in the following persons:

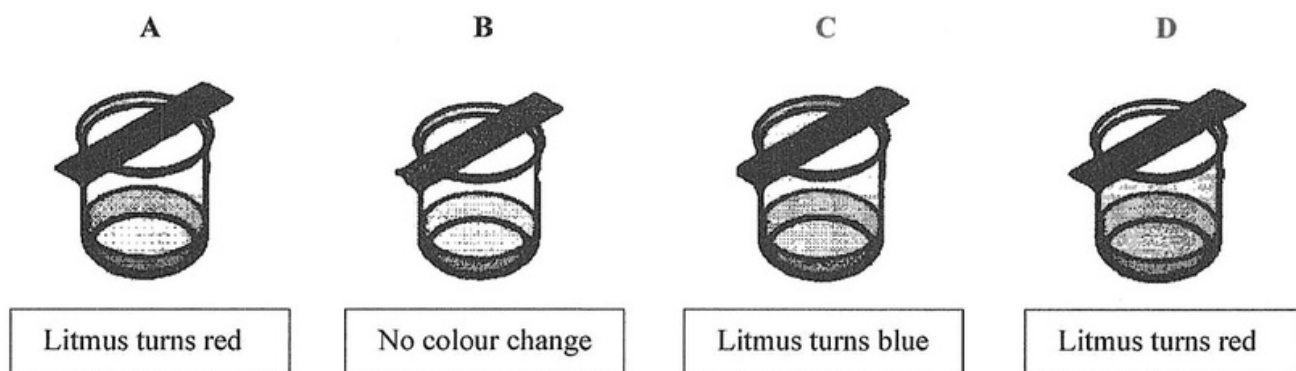
name	nutrient deficiency	deficiency disease
Harry	Vitamin D	
Tom	Iron	
Bobby	Protein	

[3]

TOTAL MARKS [10]

[Turn over]

5. A student tested four liquids **A**, **B**, **C** and **D** using neutral litmus paper. Neutral litmus paper is grey/purple in colour. The results are shown in the diagram below.



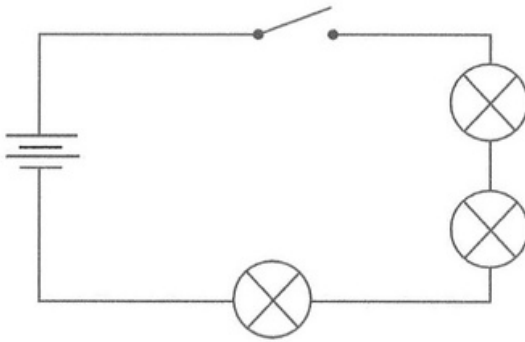
- (a) (i) Identify the liquids which are acidic and alkaline.
 acids _____
 bases _____ [2]
- (ii) Suggest an example of **ONE** liquid the student may have tested for each of the four liquids (**A**, **B**, **C** and **D**), to obtain the stated results.
A _____
B _____
C _____
D _____ [4]
- (b) (i) The student tested liquid **B** using pH paper. What is a possible pH of liquid **B**?
 _____ [1]
- (ii) When liquid **B** is cooled, it changes to a solid. What term is used to describe this process?
 _____ [1]
- (c) State **ONE** difference between the properties of liquid **A** and liquid **C**.

 _____ [2]

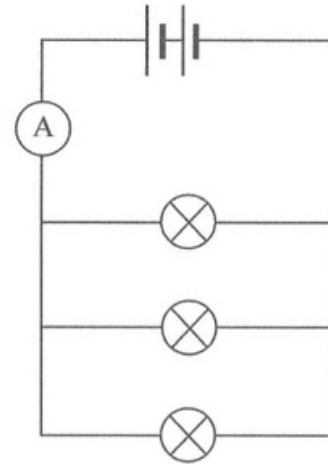
TOTAL MARKS [10]



6. The diagram shows the two types of electrical circuits.



circuit A



circuit B

- (a) (i) Identify circuit A and circuit B.

circuit A _____

circuit B _____

[1]

- (ii) State where you may find each circuit being used.

circuit A _____

circuit B _____

[2]

- (b) On circuit A draw a line to a switch and a battery and label them.

[2]

- (c) Name the **THREE** parts of a circuit.

1. _____

2. _____

3. _____

[3]

- (d) What will happen to the bulbs in circuits A and B if one bulb blows?

circuit A _____

circuit B _____

[2]

TOTAL MARKS [10]

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