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QUESTION	MARK
1	
2	
3	
4	
5	
6	
TOTAL	

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MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION

0047 GENERAL SCIENCE PAPER 2 STRUCTURED QUESTIONS (60 Marks)

Friday **30 May 2025** 2:15 P.M.–3:15 P.M.

INSTRUCTIONS TO CANDIDATES

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

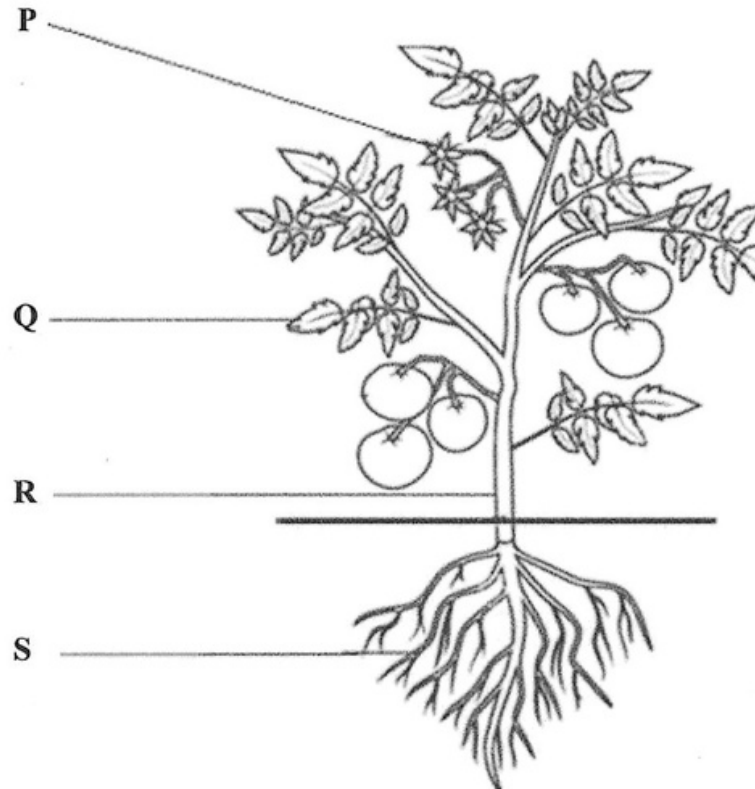
Write your school number, candidate number, surname and initials in the spaces provided at the top right hand side of this page.

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



This question paper consists of **11** printed pages and **1** blank page.

1. The diagram shows the structures of a plant labelled P, Q, R and S.



- (a) Use the diagram to complete the table by filling in the blank spaces.

letter	Function
P	
	take in water and nutrients
R	
Q	

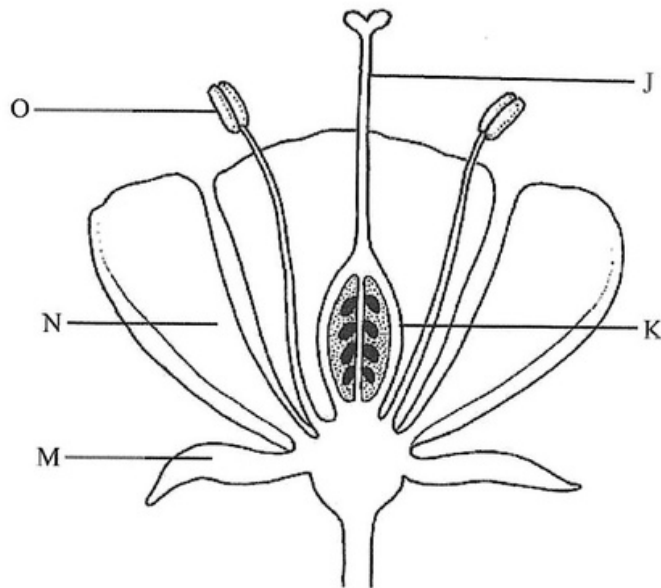
[4]



(b) The diagram shows the structures of a flower.

(i) On the diagram, draw a line to the stigma and label it **L**.

[1]



(ii) State **one** function of both structure **M** and **N**.

M _____

N _____

[2]

(iii) Give the letters and names of the structures in which the two types of reproductive cells are found.

letter	name

[2]

(iv) Briefly explain what happens to structure **K** after the cells are fertilised.

_____ [1]

TOTAL MARKS [10]

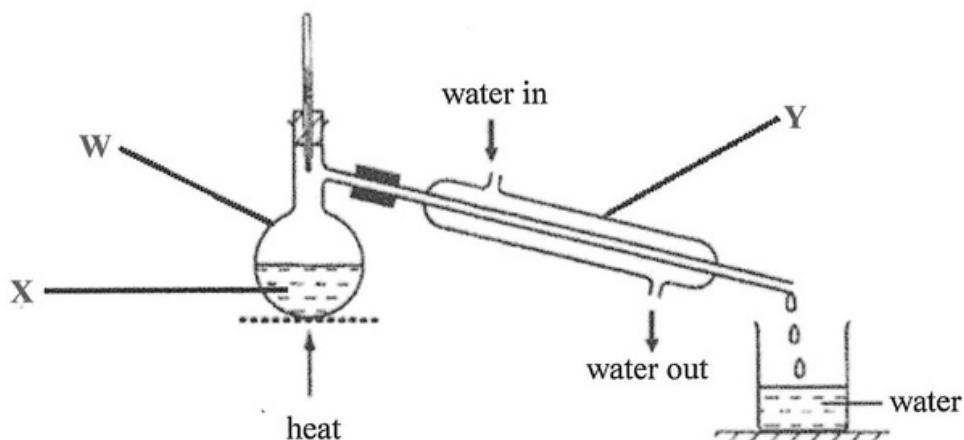
2. A student was given the task to purify different samples of water.

(a) Identify the best method of purification for each task.

- (i) Addition of an element to kill germs in ground water _____
- (ii) Kill pathogens using high temperatures _____
- (iii) Remove solid particles from the water _____

[3]

(b) The student took a sample of water and heats it using the apparatus shown.



(i) State the process shown.

[1]

(ii) Suggest a possible name for sample X.

[1]

(iii) Name the apparatus labelled W and Y.

W _____

Y _____

[2]

(iv) Explain what happens in part Y.

[2]

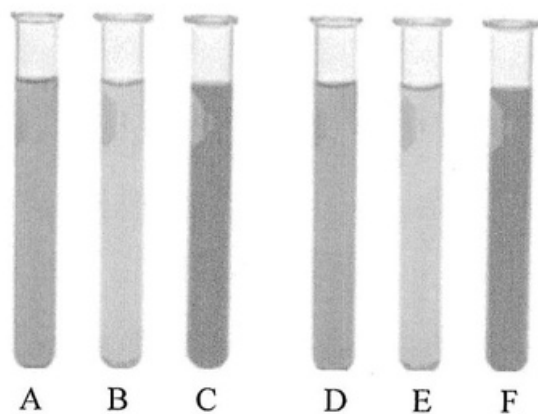
(v) State the name given to the pure water which collects in the beaker.

[1]

TOTAL MARKS [10]



3. The diagram below shows six different test tubes of different solutions. The pH of each solution is shown in the table beside the diagram.



Solution	pH
A	4
B	7
C	10
D	6
E	8
F	12

- (a) Answer the following questions:

- Which test tube contains a neutral solution? _____
- Which test tubes contain an acidic solution? _____
- Which test tubes contain an alkaline solution? _____
- Which solution is most acidic? _____
- Which solution is the weakest alkali? _____ [8]

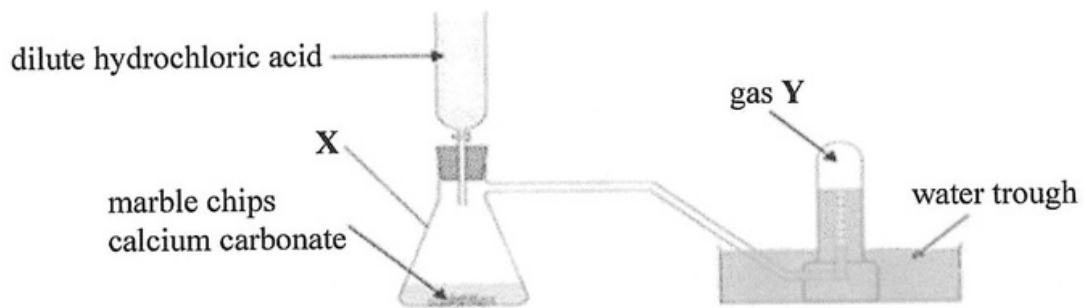
- (b) Hydrochloric acid secreted by the stomach lining has a pH of 1.

Name this type of acid and what is the chemical formula for this acid.

- Type of acid: _____ [1]
- Chemical formula: _____ [1]

TOTAL MARKS [10]

4. Mr. Henderson's class was instructed to conduct a simple laboratory experiment to prepare a gas. Review the diagram they drew and answer the accompanying questions.



- (a) Name the laboratory tool labelled by the letter X on the diagram.
_____ [1]
- (b) Name the gas that was being prepared in this laboratory experiment.
_____ [1]
- (c) Give the chemical formula for gas Y.
_____ [1]
- (d) List **two** uses of the gas that was prepared.
1. _____ [1]
2. _____ [1]
- (e) Mr. Henderson wanted to be sure that his students knew which gas had been prepared.
Describe a simple test that can be conducted to verify this gas.

_____ [2]



- (f) Name the gas that would have an **OPPOSITE EFFECT** on an open flame from the gas that was prepared in the experiment.

Name of gas _____ [1]

List **one** property of the named gas.

Property _____ [1]

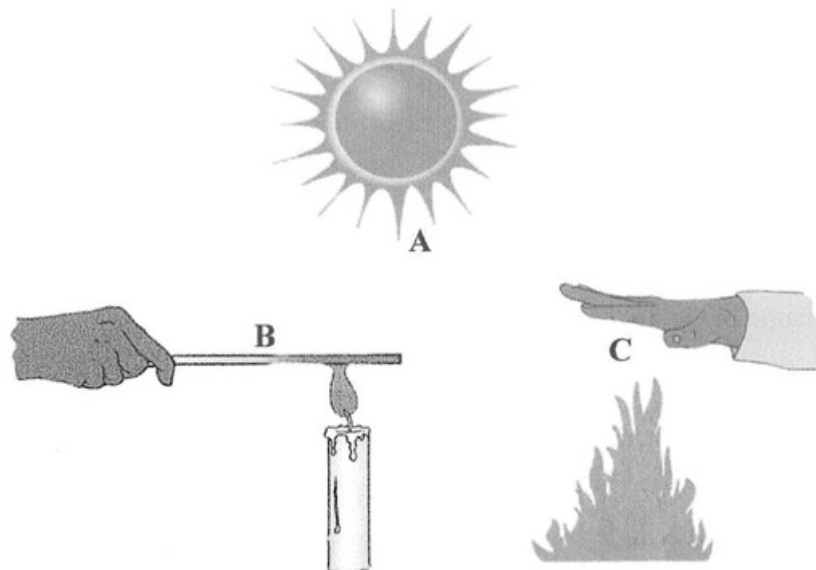
- (g) The gas named in part (f) is needed by all living things to carry out an important life function.

State the name of this process.

Name of process _____ [1]

TOTAL MARKS [10]

5. The diagram shows three methods of heat transfer.



- (a) Name the method of heat transfer at A, B and C.

A _____

B _____

C _____ [3]

- (b) Explain why your hand gets hot when it is placed above the flame but may not get hot when it is placed at the side of the flame.

_____ [2]

- (c) The thermometer is the instrument used to measure temperature.

- (i) Define temperature.

_____ [1]

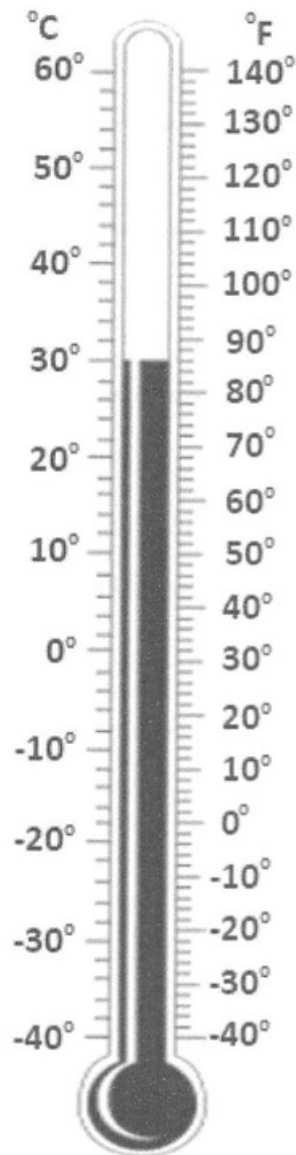


- (ii) A temperature reading is 25 degrees below the boiling point of pure water on the Celsius scale.

Calculate this temperature. (Show all working).

[2]

- (iii) Give the reading on the thermometer below in °C and °F.



_____ °C

_____ °F

[2]

TOTAL MARKS [10]

[Turn over]

6. Professors Fox and Taylor guided students in assembling two electrical circuits as shown in **diagram A** and **diagram B**.

Review what they did, then answer the related questions.

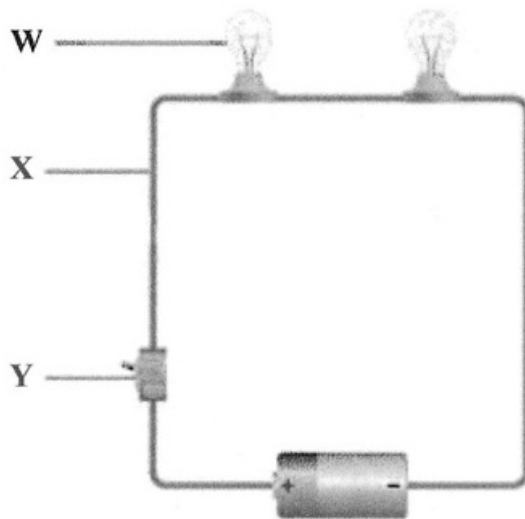


Diagram A

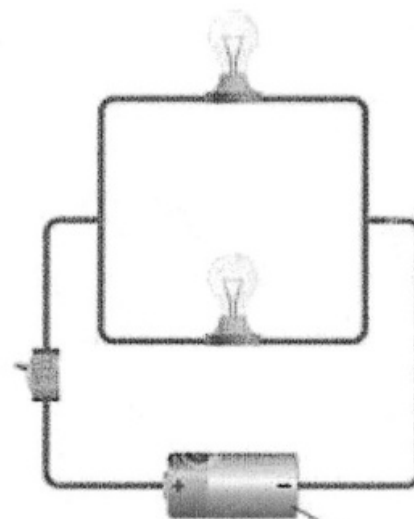


Diagram B

- (a) Give the names of the four main parts of an electrical circuit indicated by the letters **W**, **X**, **Y**, and **Z**.

W _____ **Y** _____

X _____ **Z** _____ [4]

- (b) Name the **two** types of circuit represented by **Diagram A** and **Diagram B** in the diagrams.

Diagram A _____

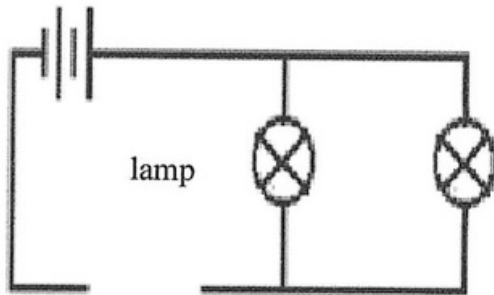
Diagram B _____ [2]



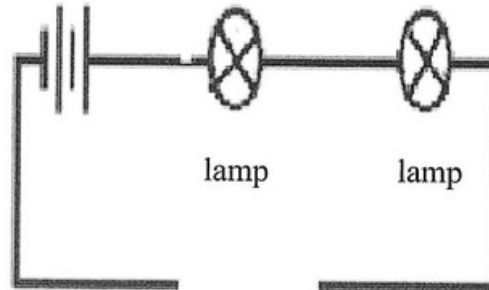
(c) Complete each circuit in the spaces provided on the diagrams by drawing:

(i) an open switch and

(ii) a fuse



open switch



fuse

[2]

(d) The following SI units symbols; **V** and **A** are used to measure two quantities of electricity.

State the SI units for each symbol below and name the instruments used to measure each.

SI unit V = _____ Instrument used _____

SI unit A = _____ Instrument used _____

[2]

TOTAL MARKS [10]

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