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

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION

0047 GENERAL SCIENCE PAPER 2 STRUCTURED QUESTIONS (60 Marks)

Monday **13 June 2022** 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.

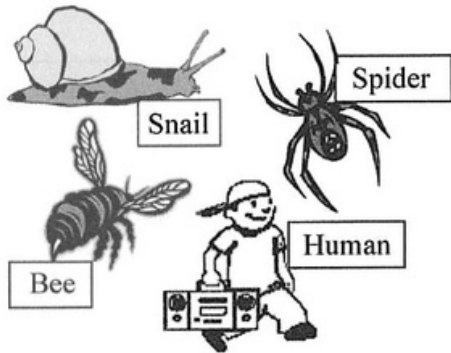
Answer **ALL** questions in the spaces provided.



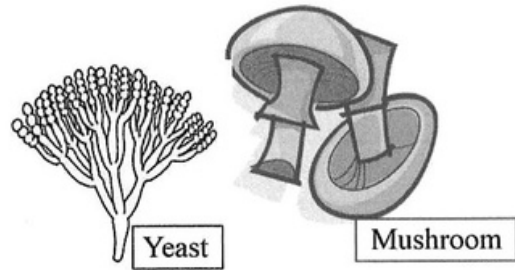
1. Study the diagrams carefully and answer the questions which follow.

(a) Look at all the organisms in the pictures.

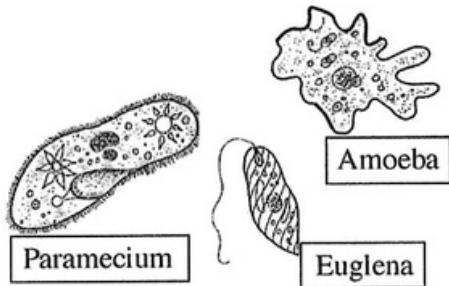
Write the name of the kingdom to which they belong on the lines provided.



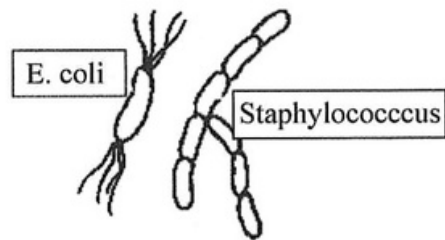
(i) _____



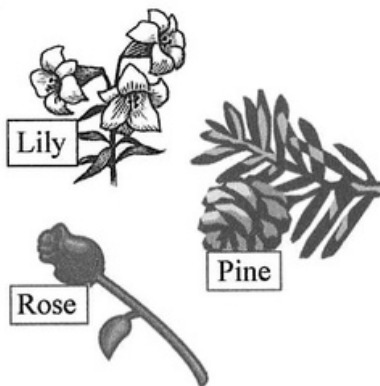
(ii) _____



(iii) _____



(iv) _____



(v) _____

[5]



- (b) The human and the spider belong to the same kingdom.

Give one difference between the human and the spider.

_____ [2]

- (c) The rose and the pine belong to the same kingdom.

What name is given to the specific class to which each belong?

Rose _____

Pine _____ [2]

- (d) The spider and bee belong to the same phylum of invertebrates.

Name that phylum.

_____ [1]

TOTAL MARKS [10]

2. This question is about mixtures.

(a) Substances are separated from a mixture using different methods.

Match the method of separation to its description by writing the letter of the method on the line next to the description.

Description	Method of separation
_____ Separating iron filings and sulphur powder	A Chromatography
_____ Obtaining pure salt from salt water	B Distillation
_____ Obtaining pure water from salt water	C Evaporation
_____ Separating different coloured inks in a pen	D Magnetism

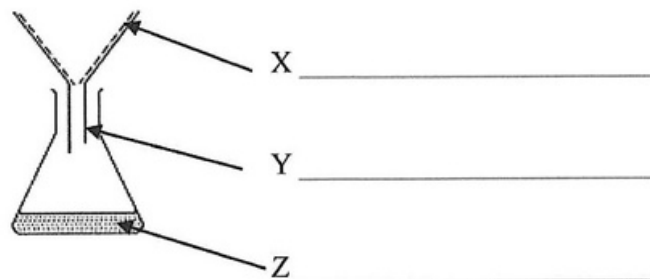
[4]

(b) (i) Name the method of separation shown in the diagram.

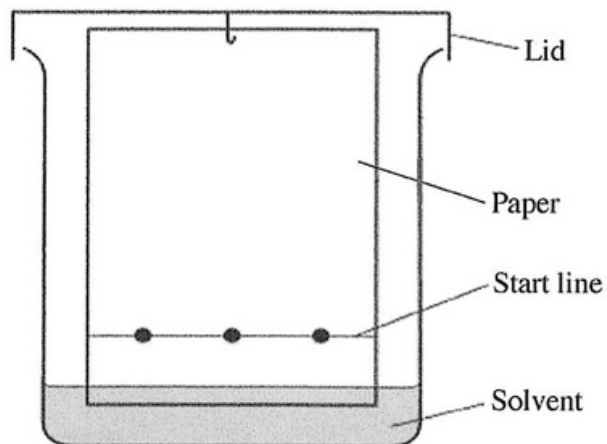
_____ [1]

(ii) On the lines provided label the parts of the diagram.

[3]



- (c) A student uses the apparatus shown to separate a mixture.



The numbered statements describe how the apparatus should be set up. **Two** of these statements give incorrect information on how to set up the apparatus.

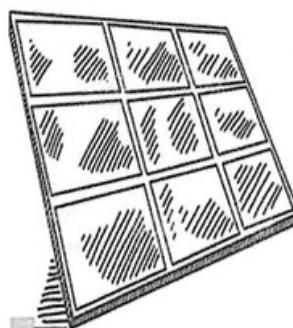
- 1 The paper does not touch the beaker.
- 2 The start line is drawn in ink.
- 3 The water level is above the start line.
- 4 Uses a lid on the beaker.
- 5 Uses water as the solvent.

Write the number of the **two** incorrect statements in the spaces provided.

[2]

TOTAL MARKS [10]

3. The pictures show renewable and non-renewable sources of energy.



- (a) (i) Identify **two** non-renewable sources of energy in the pictures.

 _____ [2]

- (ii) Give a reason why **one** of the sources identified in (a) (i) is described as non-renewable.

 _____ [1]

- (b) (i) Identify **two** renewable sources of energy in the pictures.

 _____ [2]

- (ii) Give **one** advantage of using renewable energy.

 _____ [1]



- (c) (i) Name the energy source used to provide electricity in homes in The Bahamas.

_____ [1]

- (ii) Identify another energy source that can be readily available in The Bahamas.

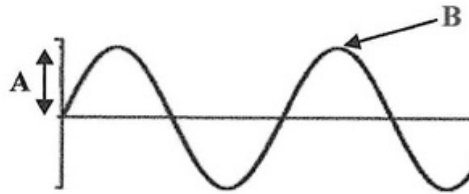
_____ [1]

- (iii) State **two** reasons why this source may not be used by the majority of residents in The Bahamas.

_____ [2]

TOTAL MARKS [10]

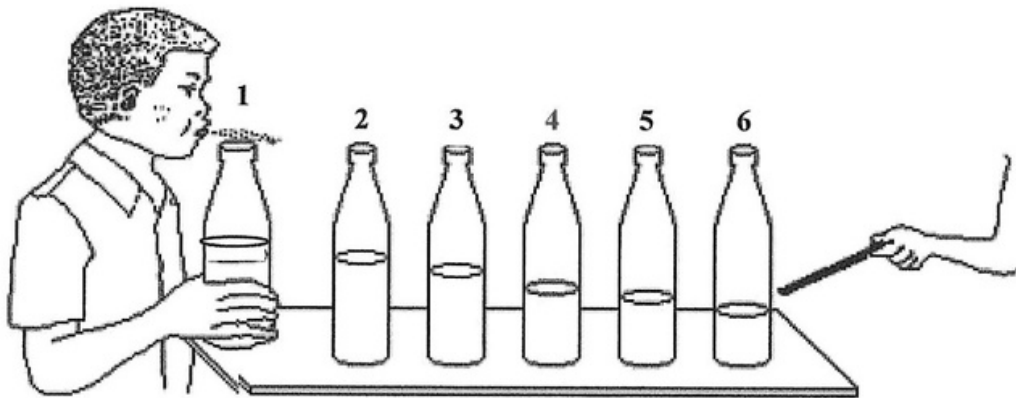
4. (a) What causes sound to be produced?
 _____ [1]
- (b) Use your knowledge of sound waves to fill in the blanks in the following statement.
 Frequency in sound waves produce _____, while amplitude in sound waves results in _____. [2]
- (c) Label the parts of the sound waves indicated by the letters A and B on the lines provided. [2]



A _____

B _____

- (d) A student conducted the experiment shown in the diagram.



- (i) Which bottle will produce the sound with the highest pitch?
 _____ [1]
- (ii) Give an explanation for your answer to (d) (i).

 _____ [2]

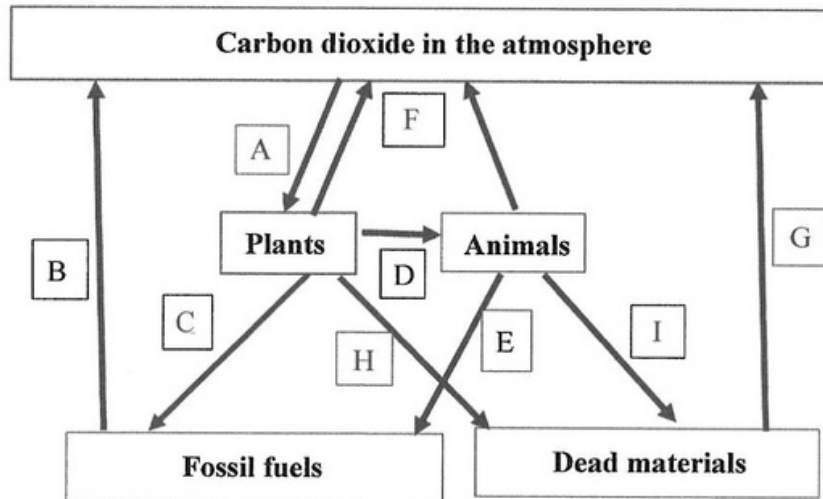


- (e) What is the quality of a sound?

[2]

TOTAL MARKS [10]

5. (a) (i) Use the diagram of the carbon cycle to match the letters with the processes.



Process	Letter(s)
Combustion	
Death	
Feeding	
Photosynthesis	
Respiration	

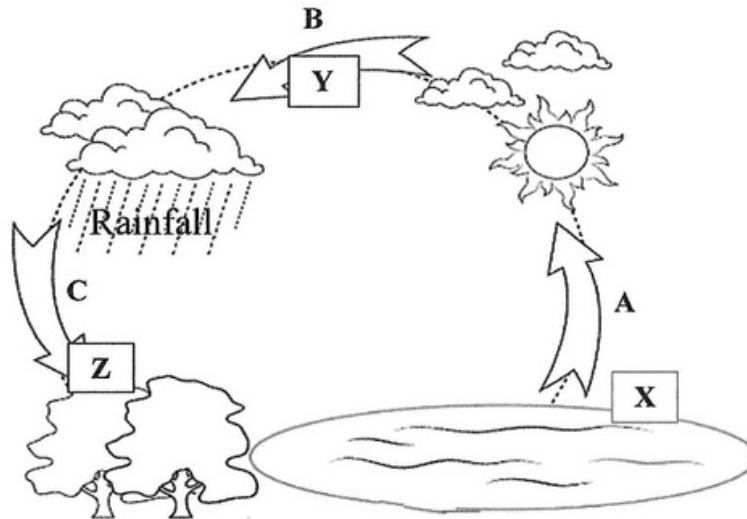
[5]

- (ii) Name **one** of the raw materials needed for respiration.

[1]



- (b) The diagram shows the water cycle.



- (i) Name the process occurring at X and Y.

A. Process X: _____

B. Process Y: _____

[2]

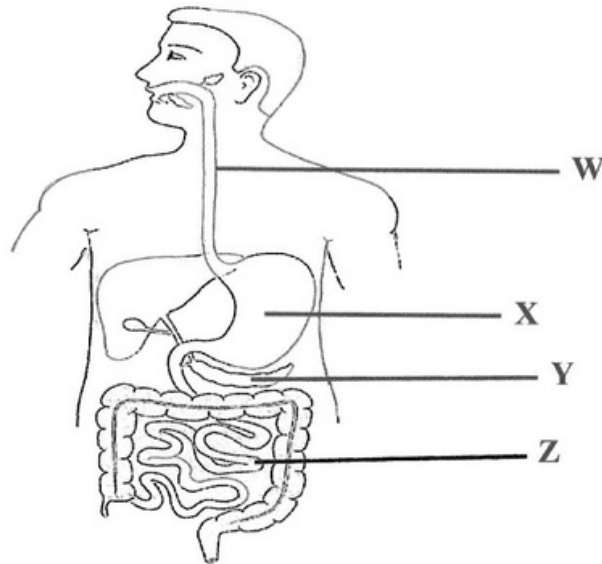
- (ii) Give **two** reasons why water is important in the body.

1. _____

2. _____ [2]

TOTAL MARKS [10]

6. The diagram below represents the digestive system and some important organs.



- (a) Name the parts labelled W, X and Y.

W _____
 X _____
 Y _____ [3]

- (b) A series of wave-like muscle contractions moves food through the digestive tract.

- (i) What is this process called?

Name of process: _____ [1]

- (ii) Name an organ where the process in (b) (i) occurs.

_____ [1]

- (c) Where does digestion begin and end?

Begins: _____

Ends: _____ [2]

- (d) (i) On the diagram draw a line to the liver and label it U. [1]

- (ii) Explain the role of the liver during digestion.

 _____ [2]

TOTAL MARKS [10]

