

SUBJECT : NATURAL SCIENCES AND TECHNOLOGY

MARKING MEMO

2018

TIME : 1,5 HOURS

MARKS : 55

SECTION A

QUESTION 1 (MULTIPLE CHOICE)

Circle the letter corresponding to the correct answer. Example: 1.11

E

1.1 B ✓

1.2 C ✓

1.3 A ✓

1.4 B ✓

1.5 B ✓

1.6 C ✓

1.7 B ✓

1.8 A ✓

1.9 A ✓

1.10 C ✓

1.11

OR

1.1 Plants need the following to make food for themselves

- A. Oxygen , sunlight, water
- B. Water, carbon dioxide, sunlight**
- C. Water, nutrients, oxygen
- D. Carbon dioxide, plants, air

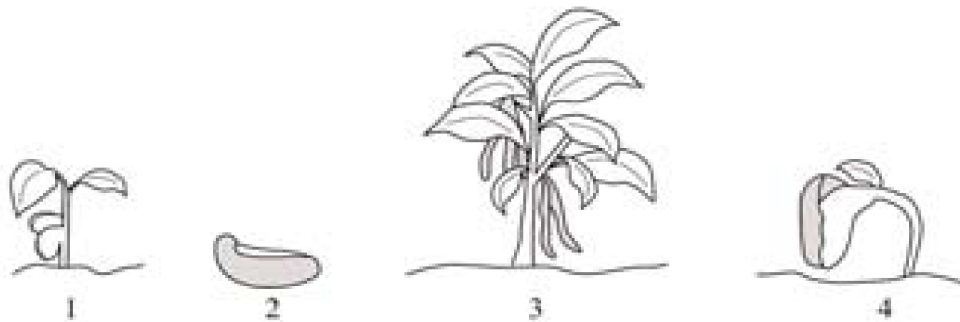
1.2 Plants suck water from the soil by using their

- A. Leaves
- B. Stem
- C. Roots**
- D. Branches

1.3 Which group consists only of living things?

- A. cat , seed, bird**
- B. seed, bird, wind
- C. cat, candle, rabbit
- D. wind, candle, volcano

1.4 The pictures show a bean plant at different stages of growth.



In what order do these stages take place?

- A. 2, 1, 3, 4
- B. 2, 4, 1, 3**
- C. 3, 2, 1, 4
- D. 4, 2, 3, 1

1.5 Which of the following form part of animal structures?

- A. Root and leg
- B. Leave and stem**
- C. Head and tail

D. Ear and leave

1.6 Matter is everything that occupies space and has mass and volume, matter occur as _____

A. Solids only

B. Liquids only

C. Gases; liquids and solids

D. Gases only.

1.7 An example of raw material is _____

A. Glass

B. Sand

C. Wood

D. Plastic

1.8 When you make soap bubbles, what is inside the bubbles?

A. Air

B. Soap

C. Water

D. Nothing

1.9 Which of the following statement is TRUE about solids?

A. Take up a definite shape

B. Can flow

C. Takes up all the space available

D. Can flow when it is hot

1.10 Which changes are examples of melting?

A. Otsile put jelly in the fridge to set

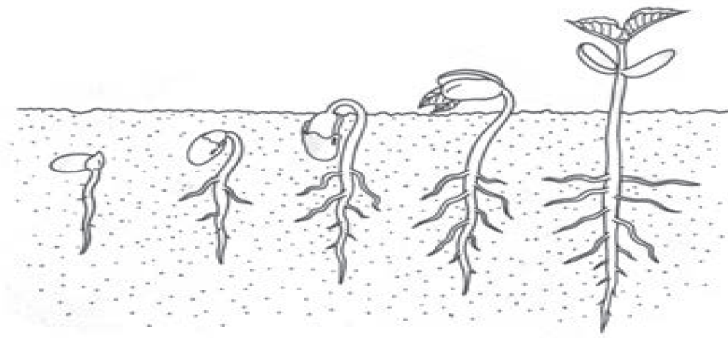
B. Farrah put butter in a pan so that you can fry an egg

C. Tom have a piece of chocolate in his pocket on a hot day and pocket get wet

D. Gert put wet clothes outside to the sun to dry up.

(10)

QUESTION 2



2.1.1 Explain what germination means.

(2)

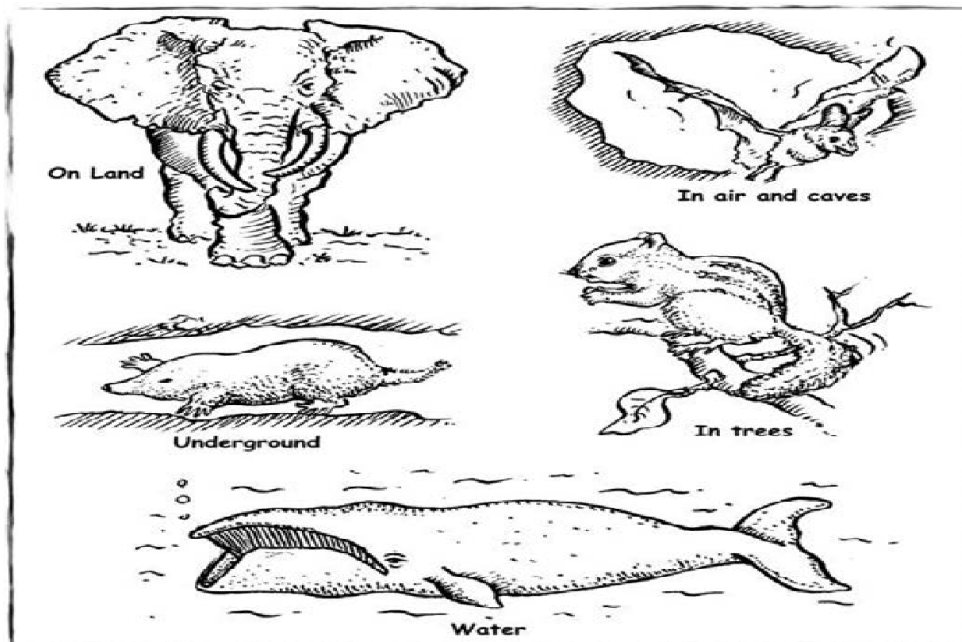
It means the seeds start growing and developing all the necessary parts✓✓

2.1.2 What does a seed need to germinate?

(2)

water and warmth, and air✓

2.2



2.2.1 Explain in your own words what a habitat is?

A habitat is a place where a plant or animal lives. ✓

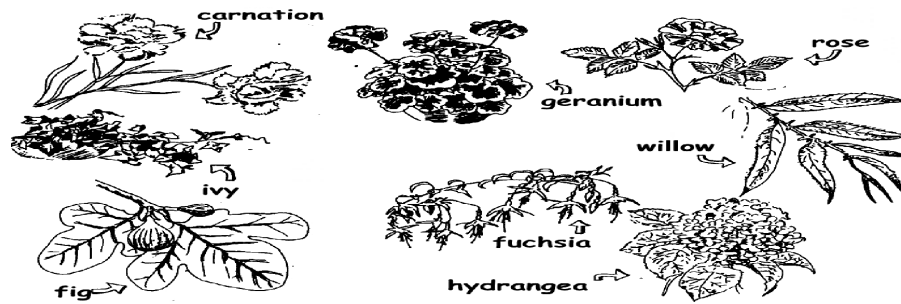
(1)

2.2.2 Explain the difference between man-made and natural shelters.

(2)

MAN-MADE SHELTERS	NATURAL SHELTERS
<i>A man-made shelter is not made by the animal, but it is used by the animal.</i> ✓ <i>Humans make man-made shelters for animals.</i>	<i>Natural shelters are when the animal makes the shelter itself</i> ✓

2.3 Look at the picture below and answer the following questions:



Which flowers would you group together? Use the following headings:

MANY FLOWERS CLOSE TOGETHER	SINGLE (ONE) FLOWERS ON A LONG STEM
geranium ✓	carnation ✓
hydrangea ✓	rose ✓

(4)

2.4 STUDY THE PICTURES BELOW.

Write each object in the picture in the correct group of frame structure, shell structure, living; non living;

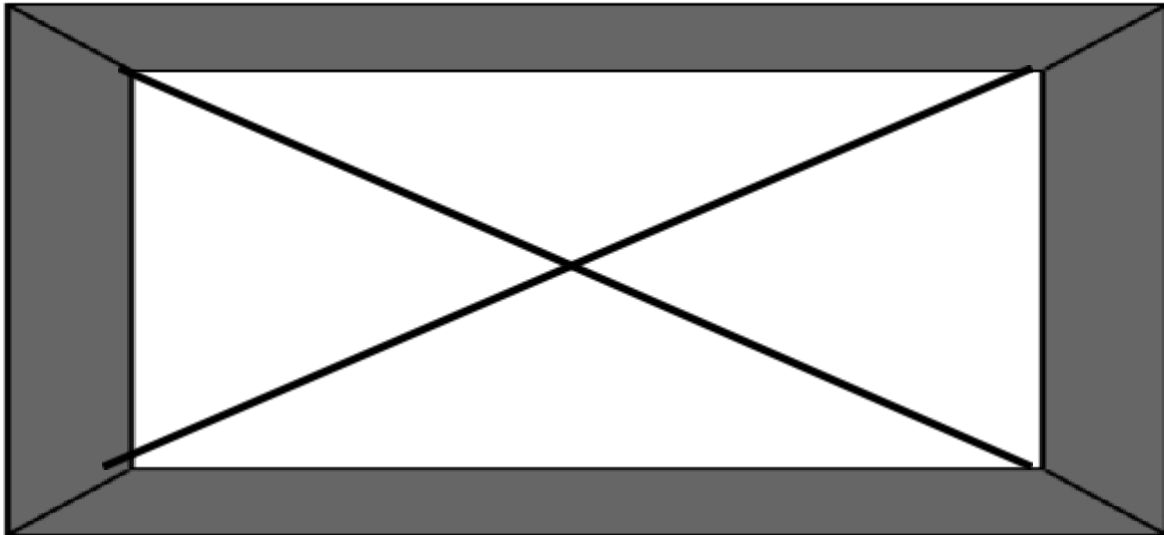
FRAME STRUCTURE	SHELL STRUCTURE	LIVING	NON LIVING
(a) Pine trees ✓	(b) Chicken egg about to hatch ✓ (c) Bottle ✓ (d) Water tank	(e) Chicken egg ✓ About to hatch (f) Pine trees. ✓	(g) Water tank ✓ (h) Bottle ✓

(8)

[19]

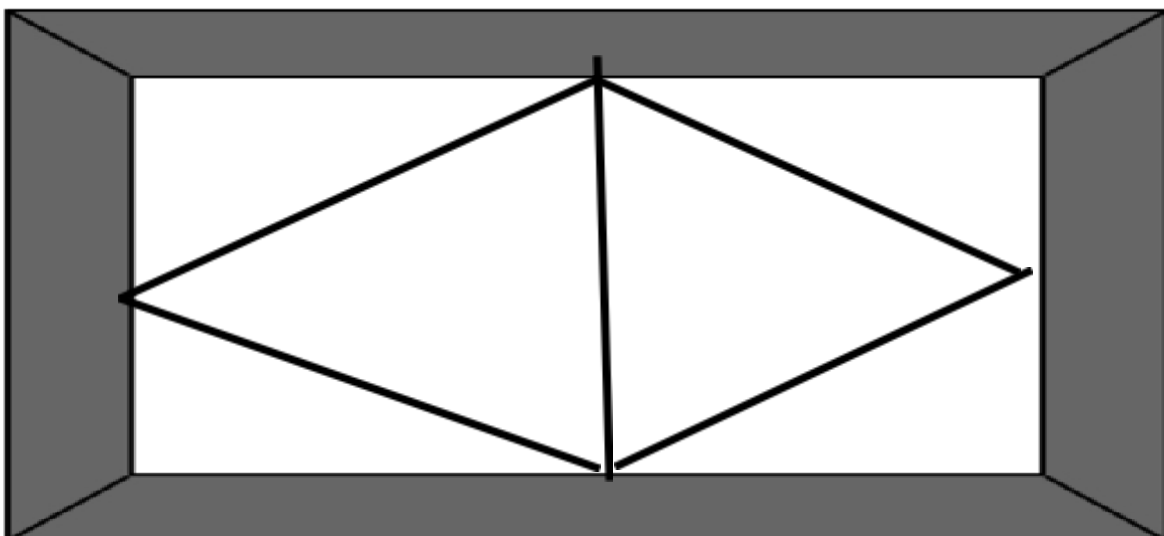
SECTION B**QUESTION 3**

3.1 Frame structures can be made stronger. Draw a brace or braces onto the wooden frame below to make it a much stronger structure.

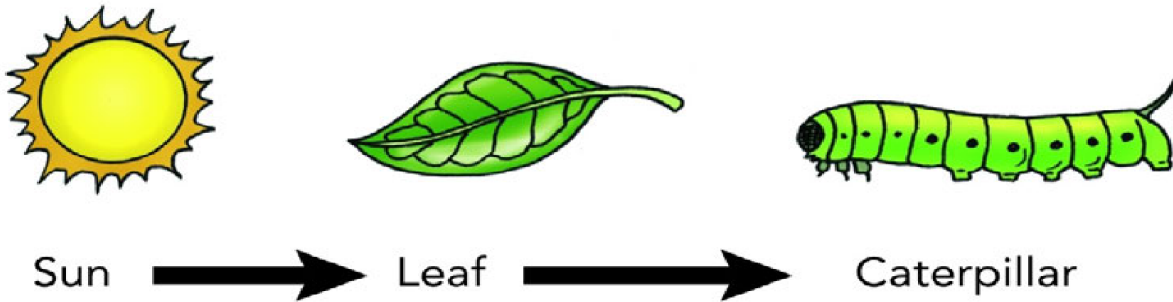


(2)

OR



3.2. Study the diagram below and answer the questions that follow.



Which of the above is a:

3.2.1 Herbivores: Caterpillar✓

3.2.2 Producers: Leaf✓

3.2.3 Source of energy: Sun ✓

[5]

QUESTION 4

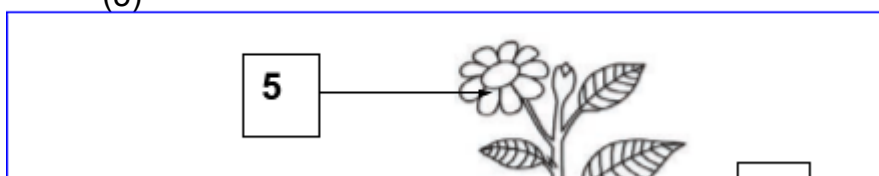
4.1 Match the term in column B to the statement in column A.

Column A	Write answer in this column	Column B
4.1.1. When liquid changes to gas we say it.....	C✓	A. melts B. condenses C. evaporates D. struts E. pollution F. oxygen G. carbon dioxide H. cools
4.1.2 The process of making the environment or something dirty or unhealthy	E✓	
4.1.3 The gas that is taken in by animals to the lungs	F✓	
4.1.4 The gas taken out by animals and is taken in by plants	G✓	
4.1.5are used to strengthen or support structures	D✓	

(5)

4.2 Write the name of the parts of the plant labelled 1 – 5 in the spaces below

(5)



PART 1 – 5

1. Seeds

4.3 Functions of the part labelled 2. (ANY two of these) (2)

- Absorbs water and mineral salts. ✓
- Anchor the plant in the soil or ground. ✓
- Transport water and minerals ✓
- Store food e.g. carrot ✓

4.4 Functions of the part labelled 3. (Any 3) (3)

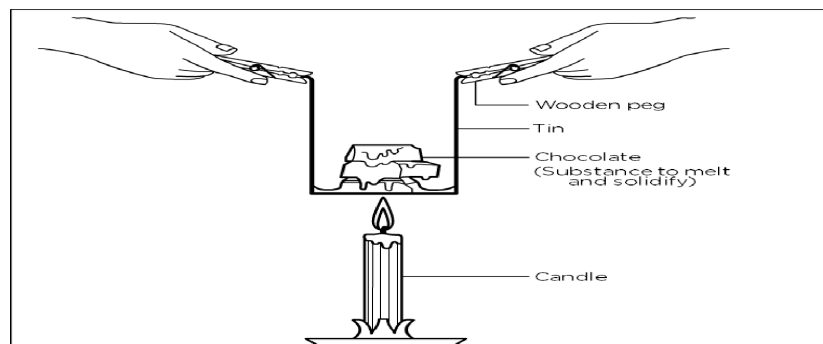
- Hold the plant in position to absorb sunlight. ✓
- Transport both water and nutrients. ✓
- Connect the roots to the rest of the plant ✓
- Hold the leaves flowers and fruits. ✓

4.5 What THREE important things do plants need to grow:

- water ✓, light ✓ and nutrients from soil ✓

QUESTION 5

Study the diagram below and answer the questions that follow:



5.1 What do you need to do to change liquid chocolate into a solid chocolate again?

Cool the liquid chocolate/ put it in a refrigerator. ✓

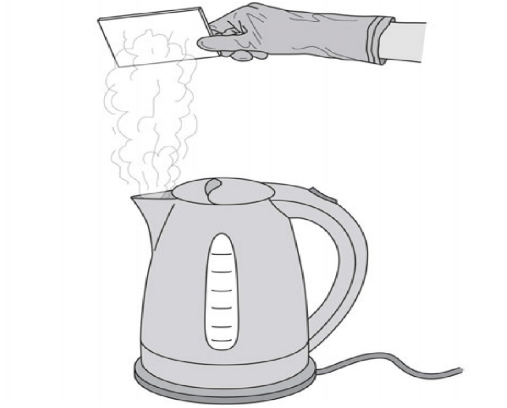
(1)

5.2. What happened when the solids were heated by the candle?

(1)

They melted✓

BOILING ; CONDENSATION AND EVAPORATION.



5.3 You cannot actually see the steam. The steam is extremely hot and quickly cools and forms tiny droplets in the air. When the steam changes into tiny water droplets, what is this called?

(2)

condensation✓

GRAND TOTAL: 55