

**SECTION A :15 MARKS****1**

|   |    |     |    |   |    |     |      |    |   |
|---|----|-----|----|---|----|-----|------|----|---|
| i | ii | iii | iv | v | vi | vii | viii | ix | x |
| B | B  | D   | C  | B | D  | D   | D    | C  | B |

**1marks @10 marks****2.**

|   |    |     |    |   |
|---|----|-----|----|---|
| i | ii | iii | iv | v |
| E | B  | F   | A  | C |

**1 Mark@ 6marks****3.i Observation**

ii.Hypothesis

iii.Experimentation

iv.Analysis and data interpretation

v. conclusion

**02marks @ 10 marks**

**4.(a)Prokaryotic cell** – is a type of cell in which the nuclear materials are not bound with a membrane while eukaryotic cell is a type of cell whose organelles are enclosed in a membrane **05 Marks**

(b) Organ a different tissue that work together to perform a certain function while Tissue is a group of cells that perform the same function **05 marks**

**5.(a)i) Mycology is study of fungi**ii)Parasitology Is study of parasites [02@=4marks](#)(b) Zoology\_ is the study of animals [02@=6marks](#)

Botany is the study of plants

Microbiology is the study of microbes

**6 i) Guard cell** -They control the opening and closing of stomata.

ii)Palisade cell\_-they contain chlorophyll which traps sunlight energy during photosynthesis.

iii)Root hair cells -absorb water and minerals from the soil

**10marks****7(i)scoop nets**

ii)sweep nets

iii)quadrant

iv)mortar and pestle

(v)Hand lens

**02@ =10 marks**

8.

| Instruments                           | S I Unit |
|---------------------------------------|----------|
| i. Stopwatch                          | Second   |
| ii.Weighing balance or weighing scale | Kilogram |
| iii.Thermometer                       | Kelvin   |
| iv.Tape measure or Ruler              | Metre    |

**2marks@=8 marks**

9. Any five (5) importance of studying biology **2@=10 Marks**

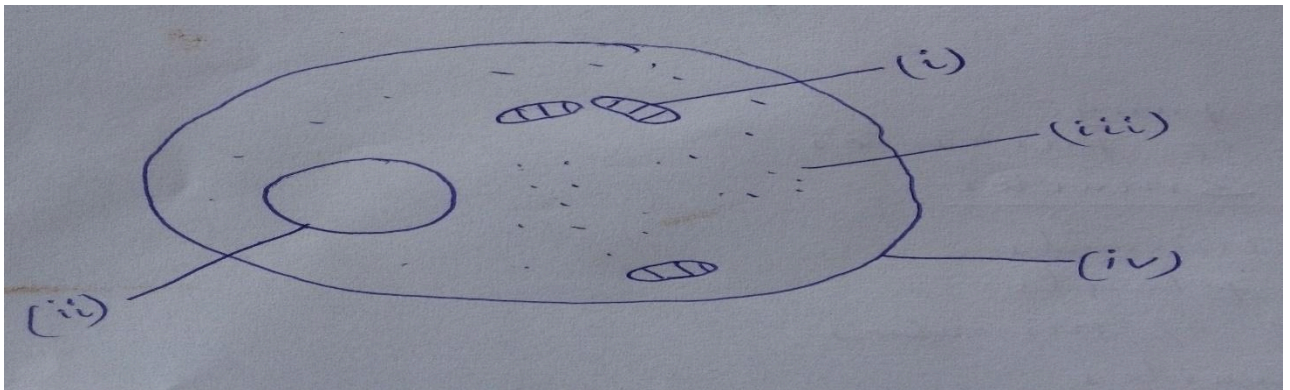
10.(a) >Nucleus

>Cytoplasm

>Mitochondria

>Cell membrane

**Any 2 points 1.5 marks@=03 marks**



**Diagram 04 Marks**

**Parts 2@=8 Marks**

