1. Classification I &II

1. Name **two** classes of phylum Arthropoda with cephalothorax.

2. List any **three** distinguishing features of class mammalia.

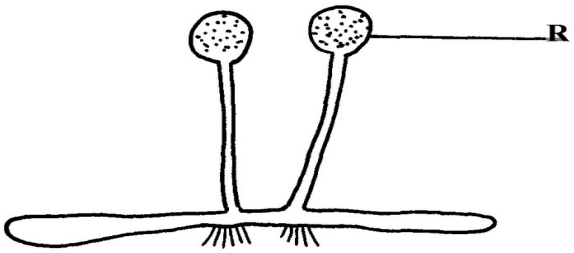
3. Give **two** characteristics that distinguish scientific names of organisms from the ordinary names

4. (a) In which kingdom do bacteria belong?

   (b) Give any **two** benefits of bacteria to man

5. Name the phylum whose members possess notochord

6. The diagram below represents a bread mould: -



   (a) Identify the kingdom to which the organism belongs: -

7. Give a reason why no moulting occurs during the adult stages of insects

8. Name the branch of Biology that deals with the study of animals

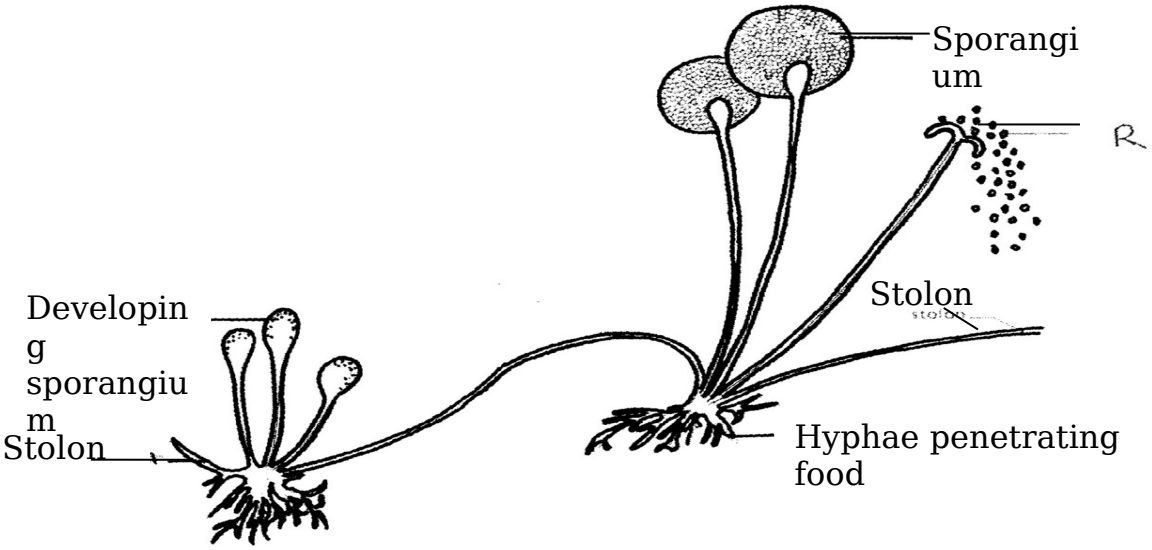
9. State **four** ways in which some Fungi are beneficial to human

10. During a class practical form four students came across a plant whose flower floral parts were in multiples of fours and fives. To which sub-division and class does the plant belong?

11. A student caught an animal which had the following characteristics: -

- Body divided into two parts
- Simple eyes
- Eight legs
- The animal belongs to the class

12. The diagram below represents a bread mould.



(a) (i) Name the Kingdom to which bread mould belongs.

(ii) Give **two** distinguishing characteristics of the Kingdom named in **(a)(i)** above.

(b) State the function of the part labelled **R**

13. (a) What is meant by the term taxonomy?

(b) The scientific name of a rat is Rattus norvegicus
(i) Write the name correctly
(ii) Identify the genus and species names

14. List **three** features that distinguish arthropods from other organisms

1. Classification I &II

1. Arachnida; crustacean;
2. - Body is covered by fur or hair;
- Have mammary glands for milk production;
- Have external earlobes;
- Have highly developed brain;
- Have muscular diaphragm that have sweat glands;
- Have muscular diaphragm (separate thoracic cavity from abdominal cavity); Nb mark the first three
3. – Two names i.e. first genus and second species;

- Genus names start with capital letter while species starts with small letter;
- Both names are written in italics, when printed or underlined when types or handwritten;
4. (a) Kingdom Monera;
(b) Producing antibiotics; vaccines; hormones and in producing transgenic organisms in modern technology;
5. Chordata;
6. a) Fungi;
b) Sporulation;
7. Prothoracic glands disintegrates hence no production of ecdysone / moulting hormone
8. Zoology;
- Mushrooms used as food;
9. - penicillium are used to make antibiotic;
- Yeast is used in brewing and bread baking;
10. Sub-division – Angiospermaphyta;
Class – Dicotyledonous;
11. Arachnida;
12. (a) (i) Fungi/mycophyta:
(ii) Non— green/ lacks chlorophyll;
- Body made up of hyphae/ mycelia;
(b) (Asexual) reproduction: OW WTE

13. (a) taxonomy is the classification of living organisms on their similarities and difference observed

(b) (i) <u>Rottus</u> <u>norvegicus</u> (1mk) (Genus name MUST begin with capital letter and the names must be underlined separately)

(ii) Genus – Rattus;
Species – norvegicus;

14. - A segmented body;
- A hard exoskeleton;
- Jointed legs;