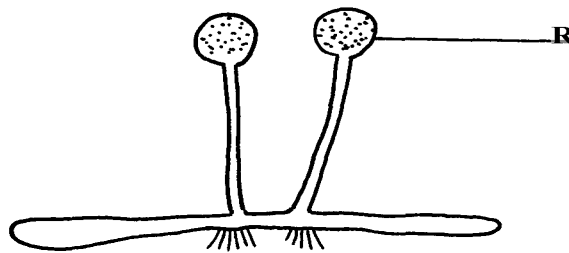


1. Classification I & II

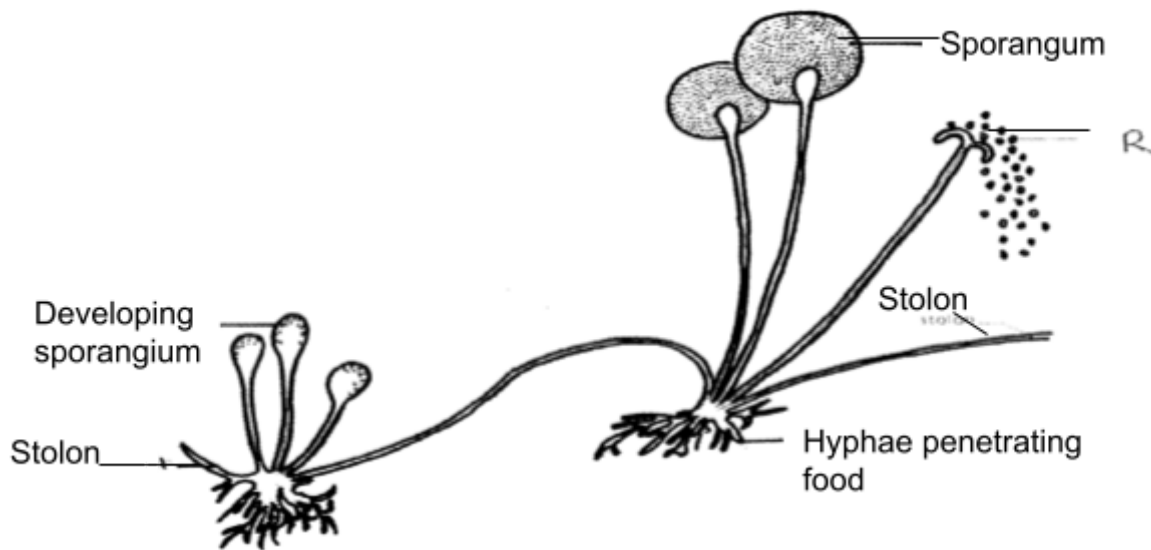
1. Name **two** classes of phylum arthropoda with cephalothorax.
2. List any **three** distinguishing features of class mammalia.
3. Give **two** characteristics that distinguish scientific names of organisms from the ordinary names
4. (a) In which kingdom do bacteria belong?
(b) Give any **two** benefits 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 (that thoracic cavity from abdominal cavity); (first three)

3. – Two names i.e first genus and second species;

- Genus names starts 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;

9. - Mushrooms used as food;
- penicilium are used to make antibiotic;
- Yeast is used in brewing and bread baking;

10. Sub-division – Angiospermaphyta;

Class – Dicotyledonae;

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) Rottus norvegicus (1mk) (Genus name MUST begin with capital letter and be underlined

separately)

(ii) Genus – *Rattus*;

Species – *norvegicus*;

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