**CHAPTER 1 – CLASSIFICATION II**

1. - Food spoilage

- Food poisoning

- Cause disease

2. a) A- Sorus

B- Rhizomes

b) Pteridophyta

3. Arthropoda

4. When they interbreed freely giving rise to a viable/fertile offspring.

5. Arachnida

6.

|  |  |  |
| --- | --- | --- |
|  | Organism | Reason |
| Insecta | -Praying Mantis  -Tsetse fly | - 3 body parts  - 3 pairs of legs |
|  | -Centipede  -Millipede | -Many segments  -Many legs |
|  | -Tick  -Spider | -2 body parts  -4 pairs of legs |

7. - Presence of rhizoids

- Absence of vascular tissues

- Body parts not differentiated into roots, stem and leaves

8. - Brewing industry

- Baking of bread

- Manufacture of medicine/antibiotics

- Source of food

- Manufacture of vitamin K and B12

9. Interbreed to produce fertile/viable offspring

10. Cephalothorax; prosona.

11. Chordata

12. Class insecta

13. Arachnida

14. a) - Fungi

- Saprophytic bacteria

b) - Refrigeration

- Very low temperature inactivates the organism and metabolic activities are

very low and they do not reproduce

- Cooking –High temperatures kill the micro-organism and they cannot

reproduce

- Preservatives – create unsuitable acidic media in which micro-organisms

cannot grow.

- Salting – Create high osmotic pressure and micro-organisms become dehydrated.

15. a) - They are closed circulatory system

- They are homoeothermic

- Both use lungs for gaseous exchange

b) - They have mammary glands

- Skin covered with fur or hair

- They have diaphragm separating thoracic and abdominal cavities

16. - Have notochord in embryonic stage

- Have endoskeleton

17. a) A-Capsule B- Rhizoids

b) Division Bryophyta

c) Gametophyte

d) - Vascular tissues absent

- Body not differentiated into roots, leaves or stem.

- Display alternation of generations.

18. - Number of body parts

- Number of appendages

- Presence of wings

19. a) - Algae have chlorophyll but fungi do not have.

- Algae are single celled while fungi are multicellular.

b) - Source of food for aquatic animals

- Manufacture of gels and paints

20. - Source of agar used in cultivating micro-organism

- Manufacture of gels and paints

- Source of agar used in cultivating micro-organisms.

21. a) The spore producing structure (asexually) gives rise to the gamete

producing structure (sexual) and they alternate.

b) Division bryophyta

Division pteridophyta

22. a) - Segmented bodies

- Jointed appendages

- Exoskeleton

- Body divided into parts

b) i) Second name should be in small letter. The names should be

underlined.

ii) Tuberrasum

c) Division pteridophyta

23. Class diplopoda

24. - Number of body parts

- Number of legs

- Number of wings

- Number of antennae

25. Binary fission