**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