

1. Name two diseases each caused in animals and plants by
 - (i) Bacteria
 - (ii) Fungi.
2. Why is it dangerous to use contaminated food?
3. Mention whether the following statements are True (T) or False (F)-
 - (i) Bacteria are very small unicellular organisms which multiply by fission
 - (ii) Rod-shaped bacteria are called Cocci
 - (iii) Bacteria are prokaryotic in organization.
 - (iv) The bacterium Rhizobium is found in the root nodules of leguminous plants
 - (v) Fungi are non-green prokaryotic organisms.
 - (vi) The mycelium in Rhizopus is coenocytic.
4. Classify the bacteria on the basis of their shape, and also explain structure of bacterial cell.
5. Give differences between following terms:
 - (a) Serum and Toxoid
 - (b) Antibiotic and Vaccine
6. Give various role of bacteria in agriculture.
7. Explain the methods of food preservation.
8. Classify the following disease into bacterial and viral category.
Tuberculosis, Arthrax, Chicken pox, HIV cholera
9. What is bioweapon?
10. What should be the criteria for good anti-biotic?
11. Mention whether the following statements are True (T) or False (F):
 - a) Bacteria are very small unicellular organisms which multiply by fission
 - b) Rod-shaped bacteria are called Cocci
 - c) Bacteria are prokaryotic in organization.
 - d) The bacterium Rhizobium is found in the root nodules of leguminous plants.
 - e) Fungi are non-green prokaryotic organisms.
12. What are the precautions, that someone should take during Mushroom cultivation?
13. Name the kinds of Mushroom cultivated in India
14. Define Fermentation, write an equation of it.

15. Name the blue and green Moulds scientifically

16. What things are not placed in plant kingdom?

17. Answer the following questions:

- (a) Swollen structure on the top of hyphae contains spores.
- (b) Name two common bacterial disease in cattle.
- (c) Nitrates are replenished in soil by bacteria through which process.
- (d) A poison found in tinned and sealed food causes serious food poisoning.
- (e) First substance produced by genetic engineering as serum

18. Complete the following table:

| Antibiotic | Source Organism | Disease treated |
|-------------------|---------------------|---------------------|
| Penicillin | | Tetanus, Diphtheria |
| | Streptomyces grises | Tuberculosis |
| Chlortetracycline | | Typhoid |
| Erythromycin | | Rickettsial fevers |

19. Define the following terms:

- (a) Vaccine
- (b) Antitoxin
- (c) Saprotrophic
- (d) Pasteurization

20. Why is it dangerous to use contaminated food?