

Board – ICSE

Class – 9

Topic – Economic Importance of Bacteria and Fungi

- Name two diseases each caused in animals and plants by
  - Bacteria
  - Fungi.
- Why is it dangerous to use contaminated food?
- Mention whether the following statements are True (T) or False (F)-
  - Bacteria are very small unicellular organisms which multiply by fission
  - Rod-shaped bacteria are called Cocci
  - Bacteria are prokaryotic in organization.
  - The bacterium Rhizobium is found in the root nodules of leguminous plants
  - Fungi are non-green prokaryotic organisms.
  - The mycelium in Rhizopus is coenocytic.
- Classify the bacteria on the basis of their shape, and also explain structure of bacterial cell.
- Give differences between following terms:
  - Serum and Toxoid
  - Antibiotic and Vaccine
- Give various role of bacteria in agriculture.
- Explain the methods of food preservation.
- Classify the following disease into bacterial and viral category.  
Tuberculosis, Arthrax, Chicken pox, HIV cholera
- What is bioweapon?
- What should be the criteria for good anti-biotic?
- Mention whether the following statements are True (T) or False (F):
  - Bacteria are very small unicellular organisms which multiply by fission
  - Rod-shaped bacteria are called Cocci
  - Bacteria are prokaryotic in organization.
  - The bacterium Rhizobium is found in the root nodules of leguminous plants.
  - Fungi are non-green prokaryotic organisms.
- What are the precautions, that someone should take during Mushroom cultivation?
- Name the kinds of Mushroom cultivated in India
- 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?