

10. is used for purifying drinking water.
- | | |
|--------------|-------------|
| a. Phenolics | b. Alcohol |
| c. Phenol | d. Chlorine |
11. The protein from which hook and filaments of flagella are composed of, is
- | | |
|------------|--------------|
| a. Keratin | b. Flagellin |
| c. Gelatin | d. Casein |
12. The cocci which mostly occur in single or pairs are
- | | |
|-----------------|------------------|
| a. Streptococci | b. Diplococci |
| c. Tetracocci | d. None of these |
13. Bacterial cell wall is made up of
- | | |
|------------------|---------------------|
| a. Chitin | b. Cellulose |
| c. Peptidoglycan | d. All of the above |
14. Mycotoxins are produced by
- | | |
|-------------|---------------|
| a. Bacteria | b. Fungi |
| c. Virus | d. Protozoans |
15. Aflatoxin is produced by the fungus
- | | |
|---------------------------------|--------------------------------|
| a. <i>Aspergillus flavus</i> | b. <i>Aspergillus niger</i> |
| c. <i>Aspergillus marneffei</i> | d. <i>Aspergillus albicans</i> |
16. Virus require..... for growth
- | | |
|-------------|-----------------|
| a. Bacteria | b. Plants |
| c. Animals | d. Living cells |
17. Which of these are not eukaryotic?
- | | |
|-------------|-------------|
| a. Plants | b. Fungi |
| c. Protists | d. Monerans |
18. Which of these are absent in plant cell?
- | | |
|--------------------------|--------------|
| a. Large central vacuole | b. Cell wall |
| c. Centriole | d. Plastid |
19. Which of these structures of the phospholipid bilayer is correctly matched with its property?
- | | |
|---------------------------------|---------------------------------|
| a. Phosphate head - hydrophobic | b. Phosphate head - hydrophilic |
| c. Lipid tail - hydrophilic | d. Lipid tail - Polar |
20. Which of these molecules require a carrier protein to pass through the cell membrane?
- | | |
|--------------------------|--------------------------|
| a. Small neutral solutes | b. Water |
| c. Polar molecules | d. Non - polar molecules |

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PART-B : Descriptive

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Explain food infection and food intoxication with proper examples. 10
2. What do you mean by microbial growth? Write down the different phases of microbial growth in details. 2+8=10
3. Write short note on : 2×5=10
 - a. Source of contamination of milk
 - b. Method of preservation of microorganisms
4. Describe the different physical and chemical antimicrobial agents used. 10
5. Discuss different kinds of t microbial spoilage of eggs and fruits and vegetables with their causative microorganisms. 5+5=10
6. a. Distinguish between Eukaryote and prokaryotes . 5+5=10
b. Explain fluid mosaic model
7. Describe bacterial reproduction with proper diagram. 10
8. a. Explain Whittaker's five kingdom classification. 5+5=10
b. Write short notes on mycotoxins .

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[3]