

Q. P. Code: 20662

2 ½ Hours

Total Marks: 75

Note:

1. Attempt all questions.
2. All questions carry equal marks.
3. Draw neat labelled diagrams wherever necessary.
4. For Q 2, Q 3 and Q 4 attempt A and B OR C and D.

Q.1 Do as directed: (Any fifteen)

1. Define: abiogenesis.
2. Give one significance of biodiversity.
3. In Eukaryotic, plant cell a prominent organelle is the _____.
4. Name any one purine.
5. Give the function of capsule in bryophyte.
6. Presence of mammary gland is a characteristic feature of _____.
7. Bacteria reproduce by a mechanism called _____.
8. The portion of bacterial cell consisting of cytoplasmic membrane and the cell material bounded by it is called _____.
9. The walls of many gram positive bacteria can be easily destroyed by treating with an enzyme called _____.
10. The cell shape determining part of the cell wall is largely composed of _____.
11. The granular consistency of the cytoplasm is because of the presence of _____.
12. Oxidative phosphorylation takes place in _____.
13. The semisolid, granular and slightly acidophilic ground substance or the matrix in nucleus is known as _____.
14. Give one example of a Plant virus.
15. Define: Capsomeres.
16. Give an example of pigment producing microorganism.
17. Define: Lysogeny.
18. _____ is the causative agent for Anthrax.
19. Give an example of an acid-fast organism.
20. What are coliphages?

Q 2 A Explain the theory of Spontaneous generation.

08

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- Q 2 B Describe the general characteristics of class Reptilia. 07
- OR
- Q 2 C Give an account of Blue green algae and give its applications. 08
- Q 2 D Discuss the salient features of Angiosperms. 07
- Q 3 A Describe the cell wall of Gram negative bacteria. 08
- Q 3 B With a neat labeled diagram describe Mitochondria and add a note on its functions. 07
- OR
- Q 3 C Discuss the structure and functions of Chloroplast. 08
- Q 3 D Elaborate on Inclusions and storage bodies in a prokaryotic cell. 07
- Q 4 A With the help of a suitable diagram, discuss Transcription, Assembly and Release events during phage lytic cycle. 08
- Q 4 B Explain in detail the morphology and structure of phages. 07
- OR
- Q 4 C Explain One-step growth curve of plaque forming units. 08
- Q 4 D Give the Medical uses or aspects of lytic and lysogenic phage. 07
- Q.5 Write Short notes on: (Any three) 15
- a. Economic importance of Fungi.
 - b. General Characteristics of class Pisces.
 - c. Bacterial Flagella and its types.
 - d. Microtubules.
 - e. Characteristic features of viruses.