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
262	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

15

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Q 2 B	Describe the general characteristics of class Reptilia.	07
	OR BOOK BOOK BOOK BOOK BOOK BOOK BOOK BO	200
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
Q	OR	0.
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 Pieces.	
c.	Bacterial Flagella and its types.	
d. 5	Microtubules.	
e.	Characteristic features of viruses.	
X O W	3 / 3 / 6 / 5 / 5 / 6 / 5 / 6 / 5 / 6 / 5 / 6 / 5 / 6 / 5 / 6 / 6	