

Il Semester B.Sc. Examination, May 2017 (Semester Scheme) (CBCS/F + R) (2014-15 and Onwards/2011-12 and Onwards) MICROBIOLOGY - II Microbial Taxonomy and Culture Techniques

Time: 3 Hours

Max. Marks: 70

Instructions: 1) Answer all Sections.

2) Draw diagrams wherever necessary.

SECTION - A

Answer the following :

 $(5 \times 2 = 10)$

- 1) Basidiomycetes.
- 2) Prions and viroids.
- 3) Actinomycetes.
- 4) Anabaena.
- 5) Autotrophs and heterotrophs.

SECTION - B

II. Answer any four of the following:

 $(4 \times 5 = 20)$

- 6) Explain general properties of viruses.
- 7) Explain structure and arrangement of flagella on bacteria.
- 8) Write a note on morphology and cultivation of mycoplasma.
- 9) Explain the cultivation of anaerobic bacteria.
- 10) Describe in brief the bacterial growth curve.



SECTION - C	(
III. Answer any three of the following:	(3×10=30
11) Explain in detail structure, replication of TMV and its cultivation.	
 Describe in detail the major characteristics used in bacterial classific 	cations.
13) Explain ultrastructure of Aspergillus and its reproduction.	(
 Define culture media. Explain different types of media. 	(
15) Explain different techniques used in counting of bacterial cells.	•
SECTION - D	
IV. Answer the following in one sentence:	(10×1=10
16) Mycophage.	c
17) Plaque assay.	Č
18) Archaea.	
19) Heterocyst.	C
20) Cryopreservation.	C
21) Saline.	C
22) Pure culture.	C
23) Macronutrients.	C
24) Pili.	Ċ
25) Amoeba.	· · ·
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