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Code No. : 9268

FACULTY OF SCIENCE
M.Sc. II Semester Examination, May/June 2012
BIOCHEMISTRY
Paper – III : Microbiology

Time : 3 Hours]

[Max. Marks : 80

Note : Answer **all** questions in Part – **A** and **B**. In Part – **A** each question carries **4** marks and in Part – **B** each question carries **12** marks.

PART – A

(8×4=32 Marks)

Answer **all** questions :

1. Prions and uses.
2. Selective media and uses.
3. Growth curve of bacterium.
4. Effect of pH on growth of bacterium.
5. Lysogeny.
6. λ_{11} phage.
7. Ultrafiltration.
8. Poliovirus.

PART – B

(4×12=48 Marks)

Answer **all** questions :

9. a) Write on general characteristics of protozoa.

OR

- b) Discuss on the discovery and characteristics of TMV.



10. a) How conjugation in bacteria discovered ? Comment on application in genome mapping.

OR

b) Write an essay on preparation of various culture media and add a note on Trp⁻ cell culture growth.

11. a) Discuss on the isolation of virus particles using ultracentrifugation.

OR

b) Write on life cycle of T₄ phages.

12. a) Explain the methods of culturing of viruses in eukaryotes.

OR

b) Write an essay on isolation and characterization of viruses from eukaryotes.