

M.Sc. part I) By Research
Microbiology paper I General
Microbiology
 (3 Hours)
 (3 Hours)

PB-5254

Con. #984-13.

By Papers]

By Research]

[Total Marks : 75

[Total Marks : 100

18 April 2013

N.B. (1) All questions are compulsory.

(2) Figures to the right indicate full marks assigned to the question.

1. (a) Write an essay on any **one** of the following :— 10/10
 - (i) Cultivation and study of anaerobes.
 - (ii) Molecular analyses in taxonomy : characteristics, methods, advantages and limitations.
- (b) Attempt any **one** of the following :— 5/6
 - (i) Explain the features of Viroids and the diseases caused by them.
 - (ii) Write a note on sample preparation for electron microscopy.
2. Answer any **three** of the following :— 15/21
 - (a) Write a brief note on cellular evolution.
 - (b) Distinguish between SEM and TEM.
 - (c) Give a brief account of immunoelectron microscopy technique.
 - (d) What is fluorescence microscopy ? State the significance of fluorescent dyes.
3. Answer any **three** of the following :— 15/21
 - (a) Describe Genomic fingerprinting and state its significance as an identification tool for bacteria.
 - (b) Justify : Archaeobacteria possess unique molecular and biochemical features.
 - (c) Discuss sequence alignment by K-tuple method.
 - (d) Justify : rDNA molecules are important as evolutionary chronometers.
4. Attempt any **three** of the following :— 15/21
 - (a) Discuss the role of oncogenes, in human cancer.
 - (b) What is micropropagation ? Discuss its applications.
 - (c) Discuss various features of viruses used for their classification.
 - (d) Give principle of ELISA and discuss its applications in virology.
5. Answer any **three** of the following :— 15/21
 - (a) Discuss the structure and function of chloroplasts.
 - (b) Describe the events of aging in *S. cerevisiae*.
 - (c) Give diagram and principle of a chemostat, laying emphasis on dilution rates.
 - (d) Give a detailed account of the events occurring in the stationary phase of bacterial growth.

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Chao Zhang



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