

S.No. 199

12PAM01

(For the candidates admitted from 2012-2013 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

First Semester

Applied Microbiology

GENERAL MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write short notes on Germ theory of disease.

Or

(b) Briefly explain the isolation of Fungi.

2. (a) Write short notes on composition and function of capsule.

Or

(b) Comment on Archaeobacteria.



3. (a) List out the salient features of Bacteria.

Or

(b) Write short notes on Bacterial Nomenclature.

4. (a) Write short notes on Phototrophs.

Or

(b) Briefly explain the Glycolysis.

5. (a) Write short notes on numerical taxonomy.

Or

(b) Briefly explain the Alkalophiles.

PART B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Describe in detail about the chemical agents controlling of microbes.

Or

(b) Explain in detail about the types of sterilization methods.

7. (a) Give a detailed account on the structure of gram negative cell wall.

Or

(b) Describe in detail about the structure and types of flagella.

8. (a) Describe in detail about the modern trends of Bacterial Taxonomy.

Or

(b) Explain in detail about the Bergey's manual of determinative bacteriology.

9. (a) Give a detailed account on TCA cycle.

Or

(b) Explain in detail about the cyclic photophosphorylation process.

10. (a) Describe in detail about the modern classification of Mycoplasma.

Or

(b) Explain in detail about the microbes in space.