Model question Paper for End Semester Exam.
B.Sc Degree Course (Semester pattern).
B.Sc. BIOTECHNOLOGY

Time: 3hrs. Max marks-75.

Section - A (5×5=25)

Answer any five of the following.

1. Write the Principle & applications of Fluorescent Microscopy
2. Explain the Cell wall of Gram positive and Gram Negative bacteria
3. Define Selective and Differential media
4. Explain the Sterilization and antimicrobial agents
5. Describe briefly the stages of mitosis
6. Define lytic cycle & lysogeny
7. Explain Acid fast and flagella staining
8. Define pure culture and explain its maintenance

Section - B (10×5 = 50)

Answer all the questions

9 (a) Write the principle, types and applications of Electron Microscopy.

(or)

(b) Give an account on Contributions of Louis Pasteur, Robert Koch and Edward Jenner.

10 (a) Explain the detailed structure, formation, germination and resistance of Endospores.

or

(b) Give an account on Morphology and general Characteristics of Viruses with suitable examples.

11 (a) Describe the nutritional classification of bacteria

or

(b) Give an account on basic Microbial nutrition requirements

12 (a) Explain the various phases of Growth Curve and write note on measurement of Growth

or

(b) Explain the mechanism of Cell injury at various stages.

13 (a) Write an account on Eukaryotic cell.

or

(b) Explain the structure of muscle cell and Synaptic transmission

— End —

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