

B.Sc I year Biotechnology  
Semester I - 2016-17

Model question paper

Course code: BT 101

Cell Biology

Time: 3h

Section A

Answer any five of the following

Marks 75

5 x 3 = 15 M

- ① Limitations of electron microscopy
- ② Lytogeny
- ③ Gram staining
- ④ Basis of resistance
- ⑤ Differential medium.
- ⑥ Synchronous culture
- ⑦ Denaturation of protein
- ⑧ Lysosomes

Section B

Answer all the questions

5 x 12 = 60 M

- Q a) what are the different stains employed in identification of microorganisms  
or
- b) Explain the principle, construction and applications of electron microscopy

PTO

10) a) Explain in detail about structure and formation of endospores

or

b) How to classify viruses based on the content of nucleic acids.

11) a) What are the various media employed in cultivation of microorganisms.

or

b) Explain the basic nutritional requirements employed in media preparation.

12) a) What are the <sup>physical</sup> factors influence the growth of microorganisms.

or

b) What is sterilization and what are the physical and chemical methods employed for it.

13) a) Draw the structure of eukaryotic cell and explain the different organelles.

or

b) Explain the differences between mitosis and meiosis.

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