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Code No. 2012/CORE

FACULTY OF SCIENCE
M. Sc. I – Semester Examination, January 2018

Subject : Biochemistry

Paper – IV
Bioenergetic and Cell Biology

Time : 3 Hours

Max. Marks: 80

Note : Answer all questions from Part–A and Part–B. Each question carries 4 marks in Part–A and 12 marks in Part – B.

PART – A (8 x 4 = 32 Marks)
(Short Answer Type)

- 1 Types of Bonds
- 2 Biological oxidation
- 3 Media for bacterial growth
- 4 Antibiotics
- 5 Microtubules
- 6 Mitosis
- 7 Atomic force microscopy
- 8 Isolation of organelles

PART – B (4 x 12 = 48 Marks)
(Essay Answer Type)

- 9 (a) Explain the laws of thermodynamics.
OR
(b) Write about the ETS in mitochondria and ETC in mitochondria.
- 10 (a) Describe about factors effecting growth.
OR
(b) Explain the large scale production of bacteria.
- 11 (a) Write about the polytene and camp brush chromosomes.
OR
(b) Give detailed account on APOPTOSIS.
- 12 (a) Write about electron microscope with applications.
OR
(b) Describe about FACS (flow cytometry and cell sorting).
