

Code: R7 212303

R7

B.Tech II Year I Semester (R07) Supplementary Examinations, May 2012

CELL BIOLOGY**(Biotechnology)**

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Write about discovery of cells.
(b) Write about the fundamental differences of prokaryotic and eukaryotic cells.
- 2 (a) Write about cytoplasm.
(b) Write about cell motility.
- 3 (a) Write about structure and functions of nucleus.
(b) Write about chloroplast and mitochondria.
- 4 (a) Write about passive and active transport.
(b) Write about endocytosis and exocytosis.
- 5 (a) Write about mitosis.
(b) Write about cell cycle.
- 6 (a) Write about general characteristics of cell differentiation.
(b) Write about embryonic and adult stem cell.
- 7 (a) Write about basic concept of cell signaling.
(b) Write about steroid and peptide hormones.
- 8 (a) Write about typical characteristics of cancer cells.
(b) Write about cancer therapy.
