

<b>R09</b>
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**Code: 9A23302**

B.Tech II Year I Semester (R09) Supplementary Examinations, May 2013

**CELL BIOLOGY**

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Describe about cell theory.  
(b) Describe about fundamental differences between prokaryotic and eukaryotic cells.
- 2 (a) Describe the properties of cytoplasm.  
(b) Describe the role of cilia and flagella in cell motility.
- 3 (a) Describe the structure and functions of endoplasmic reticulum.  
(b) Describe about chloroplast.
- 4 (a) Describe about ATP dependent proton purpose.  
(b) Describe about uniport, antiport and symport.
- 5 (a) Describe about mitosis cell division.  
(b) Describe about yeast cell division.
- 6 (a) Describe about nucleoplasmic interactions.  
(b) Describe about stem cells.
- 7 (a) Write about chemo receptors of bacteria.  
(b) Write about signal transduction by hormones.
- 8 (a) Describe about characteristics of cancer cells.  
(b) Describe about chemical carcinogens and cancer therapy.

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