

Code: 9A23302

**R09**

B.Tech II Year I Semester (R09) Supplementary Examinations December 2015

**CELL BIOLOGY**

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 Explain the characteristic of prokaryotic cell with a diagram.
- 2 Describe the structure and functions of microfilaments.
- 3 Write an account of endoplasmic reticulum and describe its role in protein synthesis.
- 4 Explain the variations in membrane transport with suitable examples.
- 5 Describe the cell cycle and explain its regulation.
- 6 What is stem cell? Describe their classification.
- 7 Explain with an example the mechanism of functioning of cGMP.
- 8 Define the cancer cell and explain its characteristic features.

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