



DGG-003-013201

Seat No. _____

M. Sc. (Sem. - II) (CBCS) Examination

May / June – 2015

Biotechnology

BT - 207 : Molecular Cell Biology

(New Course)

Faculty Code : 003

Subject Code : 013201

Time : Hours]

[Total Marks : 70

Instruction: All questions are compulsory and carry equal marks.

- Q: 1 Answer **any seven** of the followings: (14)
- Define Cytokinesis
 - Enlist the techniques used cancer research
 - Write function of Zonapellucida
 - Explain role of glycoproteins
 - Write role of actin filaments
 - Differentiate between Apoptosis and Necrosis
 - Explain targets of caspase
 - Ras pathway
 - Explain G1 phase
 - Recent advances in cancer diagnosis
- Q: 2. Answer **any two** of the following: (14)
- Write function of kinetochore during mitosis
 - Describe the steps involved in signal transduction.
 - Describe the similarities and differences in micro-tubule dynamics between metaphase and anaphase.
- Q: 3. Write short notes on: (14)
- Intrinsic Pathway of Apoptosis
 - Oncoprotein regulation in gene expression
- OR**
- Q: 3. Write short notes on: (14)
- Describe the process or regulation of activated B-cells by apoptosis
 - T-cell populations is controlled by apoptosis
- Q: 4. Answer of the followings: (14)
- What is MTOC? Discuss centrosomes in detail
 - What is narcosis? Explain various types of narcosis
- Q: 5. Answer **any two** of the followings: (14)
- Describe the functions of cytoskeleton in brief.
 - What is differentiation? Describe differentiation in detail
 - Explain in detail Formation of Germ Layers
 - Describe the characteristic of cancer cell.

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[100]