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BSS 404

First Semester M.Sc. Degree Examination, December 2018
(CBCS)
BIOSCIENCES
Advanced Cell Biology

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following (**not exceeding 2 pages each**) : **(4×4=16)**
- a) Lipid rafts
 - b) Endocytosis
 - c) CDK-cyclins
 - d) Microtubules
 - e) Tyrosine kinase receptors
 - f) Hormone receptors.

Write explanatory notes on **any five** of the following (**not exceeding 3 pages each**) : **(5×6=30)**

- 2. Give an account on cell cycle check points. Add a note on its significance.
- 3. Discuss the significance of cell signaling during development.
- 4. Cell junctions.
- 5. Modes of cell signalling with examples.
- 6. What is the significance of recombination during meiosis ?
- 7. Give the molecular organization of cell membrane.
- 8. Discuss ion channels.

Answer **any two** of the following (not exceeding **8 pages each**) : **(2×12=24)**

- 9. Elaborate on the role of second messengers in signalling pathways.
 - 10. Discuss the intrinsic and extrinsic pathways associated with apoptosis.
 - 11. Give a detailed account on conduction of nerve impulse. Add a note on synaptic transmission.
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