

QP Code: 828006

Reg. No.....

Eighth Semester B. Pharm Degree Supplementary Examinations
November 2024
Cell and Molecular Biology
(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(2x10=20)

1. What are chemical foundations. Explain the types of reactions.
2. Enumerate the different receptors involved in cell signaling. Explain the signaling pathways.

Short Notes

(7x5=35)

3. Explain properties of cell and cell membrane.
4. Differentiate plant cell and animal cell with a neat labelled diagram.
5. Elucidate the ultrastructure and models of plasma membrane.
6. Describe the structure and functions of Golgi complex.
7. What are ribosomes. What is meant by 70S and 80S ribosomes. Highlight the function of ribosomes.
8. Describe the structure and functions of mitochondria.
9. Describe the mis-regulation of signaling pathways.

Answer Briefly

(10x2=20)

10. Distinguish centromeres and telomeres.
11. Define mitosis.
12. Define crossing over.
13. Cellular reproduction.
14. Distinguish between purines and pyrimidines.
15. Give the principle roles of nucleus.
16. List the types and subunits of ribosome.
17. Inhibitors of translation.
18. Intron and exon.
19. Genetic code.
