

QP Code: 828006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular/Supplementary
Examinations March 2026
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. Describe the structure and functions of Cell membrane. How does it impact the different types of cell signalling
2. Differentiate between DNA and RNA in terms of structure and functions. Explain briefly the steps involved in DNA replication.

Short Notes

(7x5=35)

3. Explain briefly the structure and functions of Ribosomes in prokaryotes.
4. Describe the process of meiosis.
5. What is Genetic code. Write its significance.
6. Describe the Transamination reaction with examples.
7. Write the significance of Gregor Mendel Experiment.
8. What are the phases of Cell cycle
9. List out the different types of receptors with an example each.

Answer Briefly

(10x2=20)

10. What are purines
11. Define Intron and Exons.
12. Write about Plasmid and its uses.
13. Define mutation with examples.
14. Define Isoelectric pH. Write its significance.
15. Write a short note on Deamination.
16. What is the importance of recombinant DNA technology
17. Write about Protein Kinases.
18. Define Paracrine signalling with examples.
19. List out the types of secondary messengers.
