

QP Code: 828006

Reg. No.....

**Eighth Semester B. Pharm Degree Supplementary Examinations
December 2023
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. Detail on protein synthesis and its applications.
2. Define translation. Explain the phases and mechanism of translation.

Short Notes

(7x5=35)

3. Give an account on protein-kinases.
4. Describe the function of lysosomes.
5. Describe the process and function of mRNA in eukaryotic cells.
6. Write the function of gap junctions.
7. What is a second messenger and explain their functions.
8. Give an account on general properties of cytoplasmic matrix.
9. Write the difference between DNA and RNA.

Answer Briefly

(10x2=20)

10. Define semi conservation in DNA replication process.
11. Define cell signaling.
12. Define mutation.
13. Define nucleosome
14. What are restriction enzymes.
15. Define On and Off mechanism of lac operon concept.
16. Write the biological functions of amino acid.
17. What is active transport and passive transport.
18. What is function of promoters.
19. Define RNA and types of RNA.
