

QP Code: 828006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular/Supplementary  
Examinations July 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. Describe different phases of cell cycle. Elaborate about M phase of cell cycle.
2. With suitable diagram explain the process of DNA replication. Also enlist the role of different enzymes involved in DNA replication.

**Short Notes**

**(7x5=35)**

3. Differentiate between prokaryotic eukaryotic cell.
4. Describe the positive control and significance of protein synthesis.
5. Discuss briefly about clover leaf model of tRNA.
6. Explain genomic analysis.
7. Explain the receptors and hormones involved in cell signaling.
8. Differentiate mitosis and meiosis.
9. Describe the process involved in protein synthesis.

**Answer Briefly**

**(10x2=20)**

10. Enlist functions of ribosomes.
11. Distinguish between purines and pyrimidines.
12. Function of promoters.
13. Define transcription.
14. Define lysosome.
15. Label chromosome and write any two functions.
16. Function of protein kinase.
17. What are Okazaki fragments.
18. Define miRNA.
19. What are essential aminoacids.

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