

QP Code: 828006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular Examinations May 2022
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. Explain the central dogma, components and mechanism of protein synthesis.
2. Explain the Watson and Crick model of DNA. Add a note on different forms of DNA polymorphism.

Short Notes

(7x5=35)

3. Highlight the functions of lysosomes.
4. DNA damage and repair mechanism.
5. Outline the types of RNA and their functions.
6. Explain the process of transcription and add notes on its inhibitors.
7. Cellular Protein synthesis.
8. What are the various stages of meiotic prophase I. Enumerate the chromosomal events during each stage.
9. Describe the receptors for cell signals.

Answer Briefly

(10x2=20)

10. Define operon
11. Define primosome.
12. Define nucleosomes.
13. Define cell.
14. Define peroxisomes.
15. Label chromosome and write any two functions.
16. Give two main differences between prokaryotic and eukaryotic DNA replication.
17. Define transcription.
18. Zinc finger motif.
19. Define siRNA.
