QP Code: 828006 Reg. No.....

Eighth Semester B. Pharm Degree Supplementary Examinations November 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 signaling pathways and functions of protein kinase.
- 2. Detail on cell cycle and various phases of cell cycles; note on significance of Mitotic cell division.

Short Notes (7x5=35)

- 3. Write any two cytological techniques used in cell biology.
- 4. Explain the difference between prokaryotic and eukaryotic cells.
- 5. Describe the structure and function of Mitocondria.
- 6. Describe DNA replications and its enzymes.
- 7. Write a note on genetic codes.
- 8. Give an account on protein structure.
- 9. Explain how the P53 gene acts as a tumor suppressor.

Answer Briefly (10x2=20)

- 10. What are the various membrane receptors.
- 11. Define transcription.
- 12. What are the functions of RNA.
- 13. Write the principle of DNA finger printing.
- 14. Define pinocytosis.
- 15. What are the check points involved in cellular functions.
- 16. Receptors involved in cell signals.
- 17. Define cellular reproduction.
- 18. Applications of cellular and molecular biology.
- 19. Describe the function of proteins.
