QP Code: 625006 Reg. No......

Sixth Semester B. Pharm Degree Supplementary Examinations May 2024 Pharmaceutical Biotechnology

(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. Discuss the different methods of Enzyme immobilizations and its applications
- 2. Explain the gene transfer mechanism by conjugation. Explain the steps involved in PCR (Polymerase Chain Reaction)

Short Notes (7x5=35)

- 3. Production of insulin by rDNA technology
- 4. Explain the production of tetanus vaccine
- 5. Explain the working and applications of biosensors
- 6. Write a note on microbial transformation of steriods
- 7. Describe the production and recovery of Citric acid
- 8. Explain the applications of biotechnology in pharmaceutical industry
- 9. Explain mutation with examples

Answer Briefly (10x2=20)

- 10. Briefly explain type II hypersensitivity reactions
- 11. Different types of Spargers
- 12. Amylase
- 13. Genotypic variations
- 14. Protein engineering
- 15. Recombinant vaccine
- 16. Blotting technique
- 17. Control of fermentation parameters
- 18. RT-PCR test
- 19.ELISA
