No. of Printed Pages: 1



Sl. No.

M.Sc. II Semester Degree Examination, October - 2023 BIOTECHNOLOGY

Genomics and Genetic Engineering (NEP)

Time: 3 Hours Maximum Marks: 70 Instructions: (i) Answer any five of the following questions with question No. 1 (Q1) compulsory. Each question carries equal marks. (ii) Draw neat diagrams wherever necessary. 1. Discuss detailed account on prokaryotic and eukaryotic genome organization. 14 2. Give an account on tools involved in recombinant DNA technology. 14 3. Explain the gene cloning expression cassette. 14 4. Discuss various methods of bacterial transformation and write a note on Insertional 14 inactivation. 5. Explain DNA finger printing and its applications. 14 6. Discuss the southern blotting and list out its disadvantages. 14 Explain the role of RNA silencing in crop improvement. **7**. (a) 7 Write a note on C-DNA library preparation and its applications. 7 8. Write note on: (a) BAC 5 Blue - White selection 5 IPR and Patenting 4 (c)