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M.Sc. II Semester Degree Examination, September/October - 2022 21BTH2C6L: GENOMICS AND GENETIC ENGINEERING

Time: 3 Hours Maximum Marks: 70 **Instructions**: (1) Answer any FIVE of the following questions with Question No. 1 is compulsory, each question carries equal marks. (2) Draw neat diagrams where necessary. 1. Give an account on comparative genomics. 14 Describe Isolation and Purification of Plasmids. 2. 14 3. Write a note on Viral Vectors. 14 4. Describe gene knockout technique. 14 5. Give an account on DNA fingerprinting. 14 6. (a) Describe pUC 19. 7 7 Give an account on northern hybridization. 7. Describe agrobacterium mediated gene transfer. (b) Describe AFLP technique. 7 Write a note on cosmids. 8. (a) 5 (b) Give an account on RNA interference. 5 4 Write a note on patent filing and its importance. (c)

