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Sl. No.

M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024 MICROBIOLOGY

MB DSC - 12 : Recombinant DNA Technology (NEP)

Time: 3 Hours Maximum Marks: 70 Note: Answer any five of the following questions with question no.1 is compulsory, each question carries equal marks. 1. Define cloning and explain the types of cloning in bacteria. 14 2. Explain the different plasmids of bacterial origin. 14 3. Explain the key role of restriction endonucleases used in cloning. 14 4. Discuss the rolling circle amplification technology. 14 5. Describe the genome sequencing. 14 6. Discuss T7 promoter in E coli 5 (a) (b) Explain RT PCR 5 Write a note on BAC's and YAC's 4 (c) 7. Briefly discuss the role of linkers and adapters in R DNA technology. 7 (a) Explain the mammalian over expression system. 7 (b) 8. Write an account on Ligase. 5 (a) Explain Natural competence. 5 (b) Write a short note on primers. 4 (c)

