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Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024 BIOTECHNOLOGY

Medical Biotechnology and Diagnostics (NEP)

Time: 3 Hours Maximum Marks: 70 **Note:** 1. Answer any five of the following questions with Question No. 1 (Q1) compulsory, each question carries equal marks. **2.** Draw neat diagrams wherever necessary. 1. Write a detailed note on the scope and application of medical biotechnology. 14 2. Define Hemopoiesis. Explain the types of hematopoietic stem cells and their 14 disorders. 3. What are stem cells? Explain the immunological principles, preservation 14 techniques and their clinical applications. What are molecular diagnostic tools? Mention their types and explain any two in 4. 14 detailed account with reference to disorders. 5. Describe the gene therapy, their methods, clinical studies, applications and 14 regulative measures in pharmaceutical industries. 6. Enumerate in detail on the process of bone marrow transplantation and 14 replacement therapy. Write note on monoclonal antibodies, their diagnostic features, production and 7. 14 application in medical biotechnology. 8. (a) Comment on the diagnosis of inherited diseases 5 Write a short note on clinical applications of recombinant technology 5 (b) 4 Briefly explain the nanodevices (c)

