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Sl. No.

21BTH3C10L

M.Sc. III Semester Degree Examination, April/May - 2023

BIOTECHNOLOGY

Medical Biotechnology and Diagnostics

Time : 3 Hours

Maximum Marks : 70

Note : (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. Give account on infectious diseases of fungal and parasites. Write a note on peptide vaccines. **14**
2. Discuss the differentiation of hematopoietic stems cells and add a note on hemopoietic disorder. **14**
3. Discuss the advancement and challenges of encapsulation technology in the present prospective. **14**
4. Discuss monoclonal antibodies are important diagnostic reagent. **14**
5. (a) Discuss the application of recombinant DNA technology for the production of growth hormone. **8**
(b) Discuss role of insulin analogs in diabetes. **6**
6. Discuss the importance of blood and its components in clinical application and add a note on its preservation methods. **14**
7. (a) Explain advancement in gene therapy for the management of genetic diseases. **7**
(b) Give an account on nanoparticles mediated drug delivery. **7**
8. Discuss in details nanoparticles synthesis and medical applications of Nano devices. **14**

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