



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

MICROBIOLOGY

Nutraceuticals, Biologicals and Symbiotics

(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. Describe the classification of nutraceuticals. 14
2. Write an account on functional foods. 14
3. Explain in detail the edible and medicinal mushrooms. 14
4. Discuss the nutraceuticals from plant sources. 14
5. Describe the nutraceuticals remedies for circulatory problems. 14
6. (a) Discuss on Hematopoietic stem cell mobilizer 5
(b) Explain recombinant human erythroproteins 5
(c) Write a note on Synbiotics 4
7. (a) Briefly discuss the applications of biologicals vaccines 7
(b) Write a note on monoclonal antibodies 7
8. (a) Write a note on sources of prebiotics 5
(b) Explain the types of biologicals 5
(c) Write a note on diagnostic biologicals 4

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