

B.Sc. Semester - 2 (NEP-2020) Examination**JUNE – 2024****MIC: Microbial Physiology -1 (Minor-2)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que:1 (1) Classify the carbohydrates on the basis of numbers of carbon along with examples. (05)
- (2) Describe the structure of proteins in brief. (05)
- OR
- Que:1 (1) Which are the different functions of lipids in biological systems? (05)
- (2) Explain : Graphical representation of structure of DNA (Draw image). (05)
- Que:2 (1) Define: An enzyme. Explains any four points of characteristics of an enzyme. (05)
- (2) Which are the different classes of enzymes. (05)
- OR
- Que:2 (1) Explain in brief about lock and key model of action of enzymes. (05)
- (2) What are the different types of enzyme inhibition? Explain in brief. (05)
- Que:3 (1) Write any five points of the characteristics of an ideal anti-microbial agent. (05)
- (2) Classify the bacteriology media on the basis of their functions. (05)
- OR
- Que:3 (1) Define : Sterilization. Enlist the various types of sterilization. (05)
- (2) Explain in brief: Bacteriostatic and Bacteriocidal agents. (05)
- Que:4 (1) How principle of moist heat is used in autoclave? Explain in brief. (05)
- (2) Which different types of filters are used to control microorganisms? (05)
- OR
- Que:4 (1) Mention the use of phenol as disinfectant. (05)
- (2) Write a brief note on gaseous sterilisation methods. (05)
- Que:5 (1) State the biological functions of carbohydrates. (05)
- (2) Write a brief note on Allosteric enzyme regulation. (05)
- OR
- Que:5 (1) How disinfectants and antiseptics do inhibition of microbial load? (05)
- (2) Explain the principle of phenol coefficient method. (05)
