

JE-106

January-2024

B.Sc., Sem.-I

**DSC-MIC-111T : Microbiology
(Introduction to Microbiology)**

Time : 2:00 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions are compulsory.
 - (2) Figures on the right indicate marks.
 - (3) Mention correct question number against the answer.
 - (4) Draw figures wherever necessary.

1. Explain Whittaker's five kingdom concept of classification in detail. (10)
OR
1. (A) Explain in brief binomial system of nomenclature. (05)
(B) Write a short note on prokaryotic microbes. (05)
2. Give an overview of proofs of biogenesis. (10)
OR
2. (A) Write the contributions of Louis Pasteur and Edward Jenner. (05)
(B) Explain in brief germ theory of disease. (05)
3. Describe different areas of applied microbiology. (10)
OR
3. (A) Explain DNA as hereditary molecule by Macleod and McCarty experiment. (05)
(B) Explain role of Winogradsky in the field of Soil Microbiology. (05)
4. Discuss principle, types and applications of electron microscope. (10)
OR
4. (A) Explain in brief Chemistry of dyes and stains. (05)
(B) Describe magnification and resolving power of a compound light microscope. (05)