

Seat No. : _____

FG-106

February-2025

B.Sc., Sem.-1 (NEP)

MDC-MIC-114T : Microbiology (Introduction to Microbial World)

Time : 1:00 Hour]

[Max. Marks : 25

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

1. Give a detailed contrast between prokaryotic and eukaryotic microorganisms. **10**
- OR**
1. (A) Describe Whittaker's five kingdom classification system. **5**
1. (B) Write a note on acellular microbes. **5**
2. Explain the principle and applications of fluorescence microscopy. **10**
- OR**
2. (A) Explain the role of mordants, intensifiers and decolourizers. **5**
2. (B) Write a note on electron microscopy. **5**
3. Give short and specific answers in **1-2** lines only : (Any **five** out of **six**) **5**
- (i) Define Nomenclature.
- (ii) Name any two basic dyes.
- (iii) What is a Mordant ?
- (iv) What do you mean by an algal bloom ?
- (v) Define coenocytic hyphae.
- (vi) Define the term resolving power.
-