

**Microbiology [MAJOR]****[NEP-CBCS]****B.Sc. First Semester End Examination-2023****PAPER: MCBH-MJ101T****Introduction to Microbiology and Microbial diversity***Full Marks: 40**Time: 02 Hrs**The figures in the right hand margin indicate marks**Candidates are required to give their answers in their own words as far as practicable**Illustrate the answers wherever necessary***Group A****Answer any FIVE questions of the following: 5x2= 10**

- 1) Write four salient feature of fungi?
- 2) In what way are the contribution of Ehrlich and Fleming is related.
- 3) Write the germ theory of disease.
- 4) List the name of two scientist disproved the spontaneous generation.
- 5) Write the limitation of three kingdom system.
- 6) What is gram staining?
- 7) How to control the Giardiasis?
- 8) What is vaccine?

(2)

**Group B**

**Answer any FOUR questions of the following: 4x5 = 20**

- 1) What is biogenesis? Explain the role of microbes in fermentation. 1+4
- 2) What is amoebiasis? Write the function of cilia and flagella. 2+3
- 3) What is eyespot? Differentiate between viruses, Viroids and Prions. 1+4
- 4) What is golden era of microbiology? Define monera and protista. 2+3
- 5) Write the characteristics features of eubacteria and archabacteria. 2.5+2.5
- 6) Write the three successive stages in malaria fever. 5

**Group C**

**3. Answer any ONE question of the following: 1x10 = 10**

- a) Briefly discuss the Carl Woese's three kingdom classification systems. Differentiate between prokaryote and eukaryotes. Write Koch postulates. 4+4+2
  - b) Briefly describe the asexual reproduction process of fungi with example. Classify the algae with respect to their pigmentation and give example each type. 5+5
-