

**B.Sc. (Hons.) Microbiology**

**Mock Question Paper**

**Core Paper-II**

**Time-2 hr**

**F.M-40**

1. **Answer any *five* of the following questions:** 1x5=5
  - a) What do you mean by differential media? Give example?
  - b) What is Growth?
  - c) What do you mean by pure culture?
  - d) Give an example of low G+C bacteria.
  - e) What is macro element? Give an example
  - f) Write down the difference between pilli and fimbriae ?
  - g) What is the full form DMSO?
  - h) What is the copy number of plasmid?
2. **Answer any *five* of the following questions:** 2x5=10
  - a) What do you mean by phenol-co-efficient method?
  - b) Give four differences between eubacteria and archaeobacteria.
  - c) Write down four characteristics of High (G+C) bacteria
  - d) What is the relation between generation time and specific growth rate?
  - e) What is the physical methods used for controlling of microbes?
  - f) Give two economic importance of archaeobacteria.
3. **Answer any *three* of the following questions:** 5x3=15
  - a) Describe the different phases of growth with proper diagram
  - b) Calculate the generation time of bacterial growth
  - c) What chemicals used for control of growth? Write down mode of action of any of two of the chemicals.
  - d) Write down the different asexual method of reproduction in bacteria.
  - e) Give example of non-proteobacteria. What is the difference between strain and species? What is systematic? 1+2+2
4. **Answer any *one* of the following questions:** 10x1=10
  - a) Give an comparative account of different proteobacteria. Write down the economic importance of Actinobacteria. 7+3
  - b) What is the difference between SEM and TEM? How an unstained preparation can be seen under a phase contrast microscope? Write down any one of the preparation mechanism for SEM and TEM. Write down the uses of Dark Field microscope. 2+2+4+2
  - c) Write down the characteristic of low G+C bacteria and its economic importance. Write down a brief description of different types of plasmids. 4+2+4