

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

**Core Paper-II**

**Mock Question Paper**

**Time-2 hr**

**F.M-40**

1. Answer any *five* of the following questions: 1x5=5
  - a) What do you mean by protoplast?
  - b) What is DPA?
  - c) Who discovered three domain system?
  - d) What do you mean by Strain?
  - e) What do you mean by pure culture?
  - f) Give example of gram positive and gram negative bacteria
  - g) Mention two function of pili
  - h) What is numerical aperture of microscope?
2. Answer any *five* of the following questions: 2x5=10
  - a) What is carboxysome? Give example?
  - b) What is teichoic acid? What is its function?
  - c) What is the differences between s-layer and capsule?
  - d) What is heterocyst?
  - e) What do you mean by Bacterial Systematics? What is taxonomy?
  - f) What is the function of D-amino acid in peptidoglycan structure?
3. Answer any *one* of the following questions: 5x3=15
  - a) Write down the structure of bacterial flagellum with proper diagram?
  - b) Write down the characteristics of Cyanobacteria. Write down two economic importance of Cyanobacteria. 4+1
  - c) Write down the preservation method of bacterial culture.
  - d) Give a short note on phase contrast microscope.
  - e) Describe the life cycle of *Chlamydia*. Give a difference between elementary body and reticulate body.
4. Answer any *one* of the following questions: 10x1=10
  - a) Write down the sporulation procedure of bacteria with diagram. Write down the functions of SASPs. 8+2
  - b) Write down the structure of peptidoglycan. Write down Differences between gram positive and gram negative bacterial cell wall. What do you mean by L-form of bacteria? 5+4+1
  - c) Describe the characters used in bacterial systematic. Write a short note on three domain system. 6+4