

2022

**BMLT**

**(B.Sc. Fifth Semester End Examination-2022)**

**PAPER-XXVII**

**[Clinical Microbiology]**

*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**

1. Answer any five questions of the following: **5x2 = 10**
- a. What are the different types of morphological classification of fungus?
  - b. Why mycobacterium tuberculosis is called 'Acid Fast Bacilli'?
  - c. What are the full forms of 'NAG and NAM'?
  - d. What IS Extra cellular polymerase substance of Bacteria?
  - e. What are true pathogens?
  - f. What is the fullform of HEPA and its significance?
  - g. Write the different steps of Bio-safety level?
  - h. Write any two causative agents of UTI.

2. Answer any four questions of the following: 4x5 = 20
- a) What is bacterial flagella and its type? 5
  - b) Why Macconkey agar is called as differential media, Indicator media as well as selective media?  $2\frac{1}{2} + 2\frac{1}{2}$
  - c) Write the bacterial growth curve? 5
  - d) How we collect mycological samples and what is PCB? 3+2
  - e) Define disinfection. Describe disinfection process below 100°C temperature? 1+4
  - f) Why is Candida sp considered as opportunistic pathogen. 5

**Group -C**

3. Answer any one question of the following: 1x10=10
- a) Write the composition of bacterial cell wall. Differentiate gram positive and gram Negative bacterial cell wall. What are meant by ESKAPE Pathogen? 4+4+2
  - b) How urine sample is collected for micro-biological culture and how you perform different steps for identification of medically importance pathogen? 5+5