

**2 0 2 3**

(April)

**Bachelor of Medical Laboratory Technology (BMLT) 2<sup>nd</sup> Year**

**Microbiology – I**

Full Marks : 80

Time : 3 hours

*The figures in the margin indicate full marks for the questions*

*Answer all questions*

1. Briefly explain the following terms: (2 X 5 = 10)
  - a) Herd immunity
  - b) Hot air oven
  - c) Cytokines
  - d) Cross infection
  - e) Arrangement of flagella
  - f) Endospore
  - g) SIDA
2. Write short notes on (any six): (5 X 6 = 30)
  - a) Antibody and its structure.
  - b) Dermatophytes
  - c) Hypersensitivity type-II reaction
  - d) Koch postulate
  - e) Culture media
  - f) General morphology of virus

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- g) Life cycle of *T. solium*
- h) Gram staining
3. Descriptive questions (any four): (10 X 4=40)
  - a) What is infection? How sterilization can prevent infection in hospital set-up. Explain the various sterilization procedure.
  - b) Discuss the general properties, pathogenesis, lab diagnosis of Hepatitis-B virus.
  - c) Describe the cell anatomy of Bacteria along with proper labelled diagram.
  - d) Explain the morphology, pathogenicity, clinical features, laboratory diagnosis and prophylaxis of Rabies virus.
  - e) Explain the morphology, classification, pathogenicity, clinical features and prophylaxis of Polio virus.

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Turn over -