

2<sup>ND</sup> SEMESTER EXAMINATION, 2026

MICROBIOLOGY (Skill Enhancement Course) FYUGP

PAPER NAME: MICROBIAL DIAGNOSIS IN HEALTH CLINICS

PAPER CODE: SEC0218203N

Full marks: 30

Time: 1.5 Hours

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

Answer either in English or in Assamese

1. Answer the following questions 1X5=5

- i) Write the full form of ELISA.
- ii) Gram stain is a differential stain. (The statement is True or False)
- iii) Name one human viral disease with causative agent.
- iv) Name one antibiotic producing microorganism.
- v) Mention one gram negative bacteria.

2. Write very short notes on the following: (any five) 2X5=10

- i) Agglutination reaction
- ii) Importance of antibiotic sensitivity test
- iii) Opportunistic pathogen
- iv) Symptoms of Aspergillosis
- v) Uses of Lowenstein-Jensen media
- vi) Precautions required for collection of clinical samples
- vii) Control measures of Syphilis
- viii) Distinct colony characteristics of bacteria on MacConkey agar
- ix) Composition of Blood agar
- x) Giemsa stain

3. Write short notes on the following ( any three ) : 5X3=15

- i) Write a note on collection of human clinical samples from throat and skin and also the method of transport of clinical samples to the laboratory.
  - ii) Write a note on disc diffusion method for determination of resistance/sensitivity of bacteria.
  - iii) Write a note on immunofluorescence technique.
  - iv) Write the causative agent, sources of infection, symptoms and control measures of Cholera.
  - v) Write the preparation of chocolate agar.
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