

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH
MBBS DEGREE - IInd PROFESSIONAL - SUPPLEMENTARY EXAMINATION - APRIL 2025
MICROBIOLOGY - PAPER - II

TIME : 3 Hrs

Max. Marks : 100 Marks (80 Theory + 20MCQs)

NOTE:

1. Attempt all questions.
2. This question paper consists of two sections: Section A - Multiple Choice Questions and Section B - Theory Questions.
3. Both sections have different paper codes. Write correct paper code on respective sheet.
4. Write correct MCQ paper set on OMR sheet.
5. Answer MCQs on the provided OMR sheet and theory questions on the provided answer booklet.
6. Any attempt to use unfair means will result in disqualification.

SECTION B - THEORY QUESTIONS

PAPER CODE : 2522230006

Q.1 Long Answer Question

15 MARKS

- i) Define Sterilization and Disinfection. Classify sterilants/sterilization agents and describe principle of Autoclave.

Q.2 Clinical Case Scenario based Structured Question

15 MARKS

A 25-year-old patient developed sudden onset of high-grade fever with chills and rigor. On exam, muscle tone and reflexes were reduced and splenomegaly was found. Blood smear reveals anemia and erythrocytes with multiple ring form.

- i) What is the most probable clinical diagnosis and most likely etiological agent? 2 marks
- ii) Describe pathogenesis and various laboratory methods used to diagnose this infection. 8 marks
- iii) Write in detail about the complications caused by this organism. 5 marks

Q.3 Short Note Question (Within 500 Words)

5 x 6 = 30 MARKS

- i) Define Hypersensitivity Reactions. Write in Details about Type I Hypersensitivity Reaction.

- ii) Extended-Spectrum Beta-Lactamase (ESBL).
- iii) What is antimicrobial stewardship & how can we use antimicrobial agents rationally?
- iv) Describe different modes of Gene transfer in Bacteria.
- v) Describe three types Antigen and antibody reaction with principle and mechanism.

Q.4 Short Answer Questions (Within 100 Words)

5 x 4 = 20 MARKS

- i) Amoebic liver abscess.
- ii) Campylobacter jejuni.
- iii) Differences between gram positive and gram negative bacteria.
- iv) Enumerate the agents causing Lymphatic filariasis.
- v) Biomedical waste management.

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