

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

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 : 2521230006

Q.1 Long Answer Question 15 MARKS

Draw a schematic labelled diagram of HIV. Describe its morphology & enumerate the modes of transmission. Describe its pathogenesis and laboratory diagnosis.

Q.2 Clinical Case Scenario based Structured Question 15 MARKS

A 28-year-old unmarried male presents to the dermatology and venereology OPD with a painless ulcer on the penis for the last 10 days. He reports unprotected sexual contact. On exam, a single, well-defined, indurated, non-tender ulcer is present on the glans penis, with bilateral, non-tender, firm, mobile inguinal lymphadenopathy.

- i) What are the provisional diagnosis and most likely causative agents? 3 marks
- ii) Describe the clinical stages of Syphilis with key features. 5 marks
- iii) Describe the diagnostic approach, including laboratory tests used to confirm the diagnosis of Syphilis. 7 marks

Q.3 Short Note Question (Within 500 Words)

5 x 6 = 30 MARKS

- i) Allergic Bronchopulmonary Aspergillosis (ABPA).
- ii) Significant bacteriuria.
- iii) Human Papillomavirus (HPV) vaccine.
- iv) Neonatal meningitis.
- v) Neurocysticercosis.

Q.4 Short Answer Questions (Within 100 Words)

5 x 4 = 20 MARKS

- i) Bacteriophage?
- ii) What are the common symptoms of leptospirosis, and how is it transmitted?
- iii) Define zoonotic diseases and give three examples.
- iv) Opportunistic Infection in AIDS?
- v) What is laboratory accreditation and why is it important?

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