

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOWMBBS DEGREE - IInd PROFESSIONAL - SUPPLEMENTARY EXAMINATION - JUNE 2024**MICROBIOLOGY - PAPER - I**

TIME : 3 Hrs

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

NOTE:

Attempt all questions.

This question paper consists of two sections: Section A- Multiple Choice Questions and Section B- Theory Questions.

Both the section has different paper code. Write correct paper code on respective sheet

Write correct MCQ paper set on OMR sheet

Answer MCQs on the provided OMR sheet and theory questions on the provided answer booklet.

SECTION B - THEORY QUESTIONS**PAPER CODE : 2421230006****Q.1 Long Answer Question 15 MARKS**

- i) Define Hypersensitivity reactions. 3 marks
- ii) Classify Hypersensitivity reactions. 4 marks
- iii) Write in detail about type I and type IV Hypersensitivity. 8 marks

Q.2 Clinical Case Scenario based Structured Question 15 MARKS

A 25-year-old male presented with fever, chills and rigor for a duration of four days. The patient developed convulsions prior to admission. He was started with cephalosporins by a private medical practitioner, but did not improve. On physical examination, anemia and splenomegaly were present. The blood sample was collected for peripheral blood smear examination which showed multiple ring forms inside red blood cells.

- i) What is the most likely etiological agent? 4 marks
- ii) Write briefly about the life cycle of the etiological agent. 4 marks
- iii) Describe the pathogenesis and complications of the disease. 5 marks
- iv) Write laboratory diagnosis of the disease. 5 marks

Q.3 Short Note Question (Within 500 Words) 5 x 6 = 30 MARKS

- i) With the help of a diagram, differentiate between cell walls of Gram-positive and Gram-negative bacteria
- ii) Amoebic liver abscess
- iii) Explain blood culture media for detection of Infective Endocarditis

iv) Conjugation as a means of genetic transfer

Q.4 Short Answer Questions (Within 100 Words)**5 x 4 = 20 MARKS**

- i) Briefly describe *Bacillus cereus* food poisoning
- ii) Write down the principle of ELISA
- iii) Briefly discuss antimicrobial stewardship program
- iv) Briefly describe Spaulding's classification
- v) Post exposure prophylaxis of HIV

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