

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOWMBBS DEGREE - IInd PROFESSIONAL - REGULAR EXAMINATION - MARCH 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 sections have 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 : 2411230006****Q.1 Long Answer Question****15 MARKS**

- i) Define sterilization. 2 marks
- ii) Classify the various methods of sterilization. 4 marks
- iii) Write the principle, functioning and sterilization control of an autoclave. 9 marks

Q.2 Clinical Case Scenario based Structured Question**15 MARKS**

A 44-year-old man visits the out patient department with complaints of fever associated with chills and rigors occurring every 48 hours since 5 days, headache and vomiting that came down with profuse sweating. On examination mild jaundice, splenomegaly and hepatomegaly was found.

- i) What is the most probable diagnosis? 2 marks
- ii) Briefly discuss life cycle of the organism. 6 marks
- iii) Explain its laboratory diagnosis. 7 marks

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

- i) Define antibody. Describe in detail about structure and function of Immunoglobulin M (IgM).
- ii) Discuss in detail about the laboratory diagnosis of Hepatitis B virus infection.
- iii) Write pathogenesis and laboratory diagnosis of Enteric fever.

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

- i) Spaulding's classification of medical devices.
- ii) Plasmid.
- iii) Difference between innate and acquired immunity.
- iv) Methicillin resistance *Staphylococcus aureus* (MRSA).
- v) Write the differences between exotoxin and endotoxin.

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