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MICROBIOLOGY

PAPER-II

Time: 3 hours MICRO/J/19/18/II

Max. Marks:100

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	Define community-acquired methicillin resistant <i>Staphylococcus aureus</i> (CA-MRSA). Discuss the changing epidemiology of CA-MRSA infections in community and hospitals.	5+5
2.	Enumerate the pathotypes of diarrheagenic <i>Escherichia coli</i> . Describe the mechanism of diarrhoea caused by enteropathogenic <i>E. coli</i> .	3+7
3.	Line probe assay (LPA) and its role in diagnosis and management of tuberculosis.	5+5
4.	Post-vaccination changing epidemiology of <i>Streptococcus pneumoniae</i> infections. What are the available vaccines against <i>Streptococcus pneumoniae</i> infections?	5+5
5.	Enumerate etiological agents of genital discharges. Write in brief about laboratory diagnosis of two of these agents.	3+7
6.	Classify anaerobes. Write a short outline on pathogenesis and laboratory diagnosis of gas gangrene.	2+3+5
7.	Discuss the epidemiology of <i>Candida auris</i> infections. Enumerate the distinctive characteristics of <i>C. auris</i> infections responsible for rapid emergence of the pathogen.	5+5
8.	Enumerate the types of pulmonary Aspergillosis. Discuss the laboratory diagnosis of allergic bronchopulmonary aspergillosis.	3+7
9.	Define and classify dermatophytes. What is the current status of drug resistance in dermatophytes?	2+3+5
10.	Current epidemiology and laboratory diagnosis of <i>Cryptococcus</i> neoformans infections.	5+5
