

M.B.B.S. [2nd Prof.]

BF/2023/02

Microbiology - A

M.M. : 40

Time : 3 Hours

- Note:
1. Attempt all questions. Illustrate your answer with suitable diagrams.
 2. ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.
 3. **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**
 4. **The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

PART - I

1. **Discuss the following: -**
 - a. Louis Pasteur [4]
 - b. Bacterial flagella [4]
2. **Write short notes on : -**
 - a. Mechanism of anti-microbial resistance [3]
 - b. High level disinfectant [3]
3. **Describe briefly: -**
 - a. Presumptive coliform test [3]
 - b. Polymerase chain reactions [3]

PART - II

4. A young woman presented to the OPD with painless hard indurated ulcer in the cervix and labia. On further examination revealed inguinal lymphadenopathy and on palpation the lymph nodes were swollen, discrete, non-tender and rubbery. She had a h/o multiple sexual partner. Specimen sent for microscopic analysis revealed spirally coiled motile bacilli with tapering end.
 - a. What is the probable clinical diagnosis and the causative agent?
 - b. Describe the clinical stages of the above disease.
 - c. Outline the laboratory diagnosis and treatment of the disease. [2+3+3]
5. **Write short notes: -**
 - a. Laboratory diagnosis of gas gangrene [3]
 - b. Laboratory diagnosis of bacterial meningitis [3]
6. **Describe briefly: -**
 - a. Widal test [3]
 - b. Traveller's diarrhoea [3]
