

2021

MICROBIOLOGY

Paper – I

Full Marks : 40

Time : 2 hours

Answer all questions from one Section

The figures in the right-hand margin indicate marks

SECTION—A

Answer all questions

1. Enumerate the types of antigen antibody reaction and describe in detail the agglutination test and its use in Laboratory diagnosis. 2 + 3 + 5
2. Write short notes on the following : 5 × 4
  - (i) Standard test for Syphilis (STS)

( Turn Over )

( 2 )

(ii) Transferable drug resistance

(iii) Delayed hypersensitivity

(iv) Bacterial food poisoning.

3. Answer in two or three lines : 2 × 5

(a) Secretory IgA

(b) Nagler's reaction

(c) Eltor Vibrio

(d) Robert Koch

(e) Neil-Mooser reaction.

#### SECTION-B

Answer all questions

4. Define PUO (Pyrexia of Unknown Origin) and enumerate the causative agent of PUO. Describe The Pathogenesis and Laboratory diagnosis of enteric fever. 1 + 3 + 2 + 4

( 3 )

5. Write short notes on : 4 × 5

(i) Classical complement pathway

(ii) Sterilisation by Steam underpressure

(iii) ELISA and its application in clinical microbiology

(iv) Toxin and enzymes of Streptococcus pyogenes

(v) Nongonococcal Urethritis (NGU).

6. Answer in two or three lines : 2 × 5

(a) Natural Killer Cell (NK Cell)

(b) Coagulase test

(c) Bacterial Capsule

(d) Natural Passive immunity

(e) Classification of NTM (Non Tuberculous Mycobacteria).