



MICROBIOLOGY HSSC-I
SECTION - A (Marks 10)

7

Time allowed: 10 Minutes

Version Number 3 4 2 1

Note: Section - A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.

- 1) The study of parasite is called:
A. Haematology
B. Parasitology
C. Immunology
D. Molecular Biology
- 2) Syphilis is diagnosed by the following test:
A. VDRL
B. Widal
C. Streptolysin O titre
D. RA factor
- 3) Food poisoning is caused by:
A. Clostridium Tetani
B. Clostridium Walchi
C. Diphtheria
D. Clostridium Botulinum
- 4) Spirochaete is:
A. Gonococci
B. Staphylococci
C. Treponema Pallidum
D. Streptococci
- 5) The staining material of Gram positive bacteria is:
A. Fast Green
B. Haematoxylin
C. Crystal violet
D. Safranin
- 6) Which one of the following is ionizing radiation?
A. UV rays
B. Infrared
C. Gamma rays
D. None of these
- 7) The principle involved in the Streak plate method is:
A. Separation
B. Streaking
C. Isolation
D. Dilution
- 8) The agent that kill the bacteria is called:
A. Bactericidal
B. Bacteriostatic
C. Pathogenic
D. Bacteriosis
- 9) Resolution power of compound of microscope is:
A. 0.2 micron
B. 0.2 angstrom units
C. 0.2 millimetre
D. 0.2 centimetre
- 10) PCR stands for:
A. Plasma creatinine ratio
B. Polymerase chain reaction
C. Platelets concentration ratio
D. None of these



MICROBIOLOGY HSSC-I

72

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)

- (i) Name the parts of microscope.
- (ii) Differentiate between Immunology and Parasitology.
- (iii) Write down the principle of Gram Stain.
- (iv) Define Sterilization and Disinfection.
- (v) How to perform the oxidase test?
- (vi) How to identify the H Influenza using X, V, XV factors?
- (vii) What is transport media, Give two examples?
- (viii) Write four differences between alpha Haemolysis and beta haemolysis.
- (ix) Write down the toxigenicity testing of C-Diphtheria.
- (x) Write down two differences between Gram positive and Gram negative bacteria.
- (xi) Write down the filtration technique to recover the campylobacter?
- (xii) Write down the morphology and staining character of Proteus mirabilis?
- (xiii) Write down the pathogenicity of E-Coli?
- (xiv) Write down the Lancefield grouping of Streptococci?
- (xv) Differentiate between Bubonic plague and pneumonic plague?
- (xvi) What is dengue virus and what it causes?
- (xvii) Name the common modes of transmission of Hepatitis C virus?

SECTION - C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 7 = 14)

- Q. 3 What is Sterilization, how to perform sterilization using Autoclave?
- Q. 4 Write down the antimicrobial testing techniques describe the Kirby Bauer modified disc diffusion technique?
- Q. 5 Describe the modes of transmission, Pathogenicity and Lab diagnosis of Mycobacterium Lepae?