



Roll No.

Answer Sheet No. _____

Sig. of Candidate. _____

Sig. of Invigilator. _____

MICROBIOLOGY HSSC-I

SECTION – A (Marks 10)

Time allowed: 10 Minutes

NOTE:- Section–A is compulsory. All parts of this section are to be answered on the question paper itself. It 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 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Which of the following is an Eukaryotic micro-organism?
A. Bacteria
B. Fungi
C. Viruses
D. Mycoplasma
- (ii) What term is used to describe the presence of Flagella all over the Bacterial cell?
A. Lopotrichous
B. Amphitrichous
C. Monotrichous
D. Peritrichous
- (iii) Who discovered Penicilline?
A. Alexander Fleming
B. Robert Koch
C. Louis Pasteur
D. Lord Lister
- (iv) Which of the following microorganisms is provided with Periplasmic Spaces in its cell wall?
A. Fungi
B. Gram Positive Bacteria
C. Gram Negative Bacteria
D. All types of Bacteria
- (v) What is the term used for bacteria having damaged cell wall?
A. Protoplast
B. Cytoplast
C. Nucleoplast
D. Spheroplast
- (vi) Which of the following Exotoxin is known to destroy white blood cells?
A. Enterotoxins
B. Neurotoxins
C. Leucocidins
D. Antitoxins
- (vii) Which of the following is known as Acidic Stain?
A. Eosin
B. Methylene
C. Haematoxyline
D. Crystal violet
- (viii) Which of the following is known as Oil immersion lense in microscope?
A. 10 x objective
B. 40 x objective
C. 100 x objective
D. Condenser
- (ix) Which of the following is used to culture Mycobacterium Tuberculosis?
A. Dorset Egg medium
B. L.J medium
C. MacConkey Agar medium
D. Loeffler's medium
- (x) How are viruses reproduced?
A. By Binary Fission
B. By Sporulation
C. By Fragmentation
D. By Replication

For Examiner's use only:

Total Marks:

10

Marks Obtained:



MICROBIOLOGY HSSC-I

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

- (i) What are Fimbriae? Write down their function.
- (ii) What is the difference between Gram Positive and Gram Negative bacterial cell wall?
- (iii) Define Spirochaetes and classify them.
- (iv) Define and name the different parts of Bacterial Endospore.
- (v) What is Mordant?
- (vi) Define Streptococci. List any four infections caused by Streptococcus Pyogenes.
- (vii) What is the difference between Disinfectants and Antiseptics?
- (viii) Define Culture Medium and classify them on the basis of ingredients.
- (ix) What is the difference between Bacteriostatic and Bactericidal drugs? Give two examples of each type.
- (x) Define Sterilization.
- (xi) What do the following abbreviations stand for:
a. CCBA b. XLD c. AIDS d. TCBS
- (xii) Define Viruses. On what basis are they classified?
- (xiii) What is Catalase Test?
- (xiv) Define Antimicrobial Drug Resistance.
- (xv) What is ELISA?
- (xvi) What is meant by total magnification of a microscope?
- (xvii) What are the characteristics of DNA Viruses?

SECTION – C (Marks 14)

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

(2 x 7 = 14)

- Q. 3** Write down the procedure and use of coagulase test.
- Q. 4** Explain morphology, transmission, pathogenesis and lab. diagnosis of *Corynebacterium tuberculosis*.
- Q. 5** How are viruses transmitted to human? Explain their growth and multiplication in the body.