

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination

MEDICAL MICROBIOLOGY

(Microbiology)

Compulsory Paper—1

Time : Three Hours]

[Maximum Marks : 50

Note :— (1) All questions are compulsory and carry equal marks.
 (2) Draw suitable diagrams wherever required.

1. (a) What are carriers ? Explain various types of carrier. 5
 (b) Describe various stages of infectious disease. 5
OR
 (c) What are the different vectors borne diseases ? Explain various types of vectors involved with suitable examples. 5
 (d) Explain various means to protect susceptible population. 5
2. Describe aggressive mechanisms of pathogenic organisms. 10
OR
 Describe normal flora of various parts of human body. 10
3. (a) Draw well labelled diagram of HIV. 2½
 (b) Write a note on qualitative Widal test. 2½
 (c) Compare between infectious and serum hepatitis. 2½
 (d) Describe Ziehl-Neelsen staining method for Mycobacterium tuberculosis. 2½
OR
 (e) Explain Mantoux test. 2½
 (f) Describe indirect ELISA test for the detection of HIV infection. 2½
 (g) Draw the well labelled diagram of hepatitis B virus. 2½
 (h) Draw life cycle of plasmodium. 2½
4. (a) Write a note on drugs inhibiting protein synthesis. 5
 (b) Describe Kirby-Bauer disc diffusion method. 5
OR
 (c) Write any two mechanisms leading to development of drug resistance in the organisms. 5
 (d) Write a note on drug delivery vehicles. 5
5. Solve any **TEN** questions : 5
 - (i) What is meant by vertical transmission ? 1
 - (ii) What is quarantine ? 1
 - (iii) Define the term pandemic. 1
 - (iv) Name any two diseases of reproductive system. 1
 - (v) What is meant by meningitis ? 1
 - (vi) What is a zoonotic life ? 1
 - (vii) Name any two media used for cultivation of Mycobacterium tuberculosis. 1
 - (viii) What is VDRL test ? 1
 - (ix) What is exoerythrocytic schizogony ? 1
 - (x) Why polymyxins are not effective against fungi ? 1
 - (xi) What are antimetabolites ? 1
 - (xii) How penicillin attacks bacteria ? 1