

SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020
(CUCBCSS—UG)

Microbiology

MBY 6B 16—MEDICAL MICROBIOLOGY—II

Time : Three Hours

Maximum : 120 Marks

Section A

Answer all questions.

Each question carries $\frac{1}{2}$ marks.

1. The live attenuated vaccine for polio is _____.
2. The receptor recognized by the HIV on human leukocytes is :
(CD8, CD4, IL2R, LFA-1).
3. What is the causative agent of Pityriasis versicolor ?
4. Hair perforation causing dermatophyte among the following is :
(*Trichophyton violaceum*, *Trichophyton mentagrophytes*, *Trichophyton rubrum*, *Microsporum canis*)
5. Name the process of transformation of *Entamoeba trophozoite* to cysts in human body.
6. An individual segment composing the complete unit of a tape worm is called _____.
7. Expand BCG.
8. What is the nature of genome of SARS-CoV ?
9. What are ESBLs ?
10. What is the mode of action of sulfonamide ?
11. The site of replication of Herpes viruses in host cell is _____.
12. Which of the following causative agents of mycetoma form black grains ?
(*Nocardia asteroides*, *Actinomadura pelletieri*, *Actinomadura madurae*, *Madurella grisea*).

(12 $\times$ $\frac{1}{2}$ = 6 marks)

Section B

Write briefly on all questions.

Each question carries 3 marks.

3. Morphology of polio virus.
4. Clinical presentation of Chikungunya.

5. Morphological characteristics of *Sporothrix schenckii*.
6. Treatment for histoplasmosis.
7. Differential characteristics of *Taenia saginata* and *Taenia solium*.
8. Pathogenicity of *Giardia lamblia*.
9. Merits and demerits of attenuated and killed vaccines.
10. TAB vaccine.
11. Cephalosporins
12. Side effects of tetracycline therapy.

(10 × 3 = 30 marks)

Section C

Write short essays on any of six questions.
Each question carries 8 marks.

23. Cytomegalovirus.
24. Dengue fever.
25. Dermatophytes.
26. Laboratory diagnosis of fungal infections.
27. Filariasis.
28. Life cycle of *Ancylostoma duodenale*.
29. Different types of vaccines.
30. Mechanisms of development of drug resistance in micro-organisms.

(6 × 8 = 48 marks)

Section D

Write essays on any two questions.
Each question carries 18 marks.

31. Discuss the classification of hepatitis viruses. Write a note on pathogenicity and diagnosis of HBV infection.
32. Discuss the etiology, pathogenesis and laboratory diagnosis of Coccidioidomycosis and Paracoccidioidomycosis.
33. Describe the life cycle of *Plasmodium*. Write a note on pathogenesis and laboratory diagnosis of malaria.

(2 × 18 = 36 marks)