

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

B.Sc. (PHYSICIAN ASSISTANT) DEGREE EXAMINATION
September 2021
Second Year

MICROBIOLOGY

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Write the properties of viruses and virus host interaction. Explain about any two viruses and its mode of action.
2. Explain in detail the life cycle, pathogenesis and lab diagnosis of *Plasmodium falciparum*.

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Write in detail about innate and acquired immunity.
4. Write in detail about the classification of clinical mycology.
5. Write the properties of HIV and its mode of action.
6. Write the morphology, life cycle, pathogenesis and lab diagnosis of *Entamoeba histolytica*.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Bacterial cell structure
8. Structure of antibody
9. Write a short note on the disease caused by *Mycobacterium Leprae*
10. Write the general properties of trematodes
11. DNA viruses with example.
12. Write the morphology and disease caused by *Aspergillus*
13. Write the morphology and cultural characteristics of *Corynebacterium diphtheriae*
14. Write short notes n antifungal agents.
15. Write the properties of cestodes.
16. Write short note on nosocomial infection.