
Course Code: 2020304

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

M.D. DEGREE EXAMINATION - May 2019

MICROBIOLOGY

PAPER IV – MYCOLOGY, APPLIED MICROBIOLOGY AND RECENT ADVANCES

Time: Three hours

Write Essays on :

Total Marks: 100

 $(1 \times 20 = 20)$

SECTION A

- Discuss automation in the clinical microbiology laboratory
 Write short notes on (5 x 6 = 30)
 Oncogenic viruses
 Interferon and its uses
 - 4. Cartridge based- nucleic acid amplification technology (CB- NAAT)
 - 5. Antinuclear antibody test
 - 6. Outer membrane protein

SECTION B

Write Essays on :

7. Enumerate opportunistic fungal infections. Write in detail about candidiasis

Write short notes on

- 8. Sporothrix schenckii
- 9. Lab diagnosis of dermatophyte infections
- 10. Coccidioides immitis
- 11. Ebola virus
- 12. Typhoid vaccines

 $(1 \times 20 = 20)$

 $(5 \times 6 = 30)$