

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

**B.Sc. (PHYSICIAN ASSISTANT) DEGREE EXAMINATION**  
**March 2019**  
**Second Year**

**MICROBIOLOGY**

Time: Three hours

Maximum: 75 marks

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

1. Define virology and classify the viruses. Write in detail about any two viruses and its mode of replication.
2. Classify nematode. Write in detail about Ascaris and Wuchereria.

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

3. Describe about the principles of Microscopy and different types of Microscopes.
4. Explain about the Blood cell components and functions.
5. Write in detail about Hepatitis virus with its structure.
6. Describe the morphology, pathogenesis and lab diagnosis of Corynebacterium diphtheria.

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

7. Antifungal agents.
8. Type IV hypersensitivity.
9. Collection of fungal specimen.
10. Candidiasis.
11. LPCB.
12. Toxins of Staphylococcus.
13. Immunoglobulins.
14. Lab diagnosis of malaria.
15. Differentiate SEM and TEM.
16. Superficial mycoses.

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