

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

**B.Sc. (NURSING) DEGREE EXAMINATION - August 2018**  
**First Year**

**MICROBIOLOGY**

Time: Three hours

Maximum: 75 marks

**SECTION – A**

I. Answer **All** Questions. Each answer in one or two sentences: (15 x 1 = 15)

1. Contribution of Alexander Fleming.
2. What is antigen?
3. Give two examples of gram negative bacilli.
4. Enumerate four live Vaccine?
5. Who is carrier?
6. Define nasocomial infection.
7. Mention two uses of pasteurization.
8. Expand ELISA.
9. Enumerate four methods for disposal of biomedical waste.
10. What is anaphylaxis reaction?
11. Haptens
12. What is black water fever?
13. Name two blood parasites.
14. Normal flora.
15. Name two antiseptics.

**SECTION – B**

II. Write short notes on any **Six** of the following: (6 x 5 = 30)

16. Draw the picture of bacterial cell and label the parts and enumerate functions of cell wall.
17. Transport media.
18. Acid fast staining
19. Tyndalisation
20. Hypersensitivity Type I
21. Brief about chicken pox
22. Immunization schedule
23. Widal's test

(p.t.o.)

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**SECTION – C**

III. Answer any **Three** of the following: (3x10 =30)

24. a) Classify types of sterilization.  
b) Write in detail about moist sterilization.
25. a) Describe the morphology and cultural characteristics of Salmonella typhi.  
b) Write in detail about pathogenesis and treatment of enteric fever.
26. Explain the life cycle of Plasmodium.
27. Define prokaryote and add a note on factors affecting bacterial growth.

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(Sl.No. M19095)