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

BDS DEGREE EXAMINATION – August 2019
Second Year

GENERAL MICROBIOLOGY

Time: Three hours   Maximum: 100 marks

SECTION – A
Answer ALL Questions

I. ESSAY: **(1 x 15 = 15)**

1. Define autoimmunity. Write in detail about mechanism of autoimmunity. Classification of autoimmune diseases, laboratory diagnosis and treatment of autoimmune diseases.

II. WRITE SHORT NOTES ON: **(3 x 5 = 15)**

2. Classify anaerobic bacteria. Outline the laboratory diagnosis of gas gangrene.

3. Complement activation pathway.

4. Gaseous disinfectants.

III. WRITE BRIEFLY ON: **(10 x 2 = 20)**

5. Sterilization indicators

6. Koch's postulates

7. Difference between active immunity and passive immunity.

8. Carriers.

9. Antistreptolysin O (ASO)

10. Draw neat labelled diagram of secondary (Peripheral) lymphoid organs.

11. Coagulase test : Types and principle.

12. Name the organisms causing dysentery.

13. Name four beta lactam antibiotics.

14. Tumour antigens.

SECTION – B

Answer ALL Questions

IV. ESSAY: (1 x 15 = 15)

15. Describe the morphology, epidemiology, pathogenesis, laboratory diagnosis and prophylaxis of Hepatitis B virus.

V. WRITE SHORT NOTES ON: (3 x 5 = 15)

16. Classify medically important fungi and describe the laboratory diagnosis of fungal diseases.

17. Describe the various methods of isolation of viruses in the laboratory.

18. Laboratory diagnosis of Malaria and add a note on malarial vaccines.

VI. WRITE BRIEFLY ON: (10 x 2 = 20)

19. Name the four intestinal helminths.

20. List the bile stained eggs and draw diagram of any two eggs.

21. Tzank smear

22. Name four opportunistic protozol infection in HIV.

23. Von Magnus Phenomenon

24. Dental caries

25. Name four antifungal agents.

26. Bacteriophage : Morphology and its uses

27. Interferon (INF): Biological properties and its uses.

28. Name two parasites causing anaemia.

*****

(Sl.No.M21511)