

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

B.Sc(MEDICAL LAB TECHNOLOGY) DEGREE EXAMINATIONS -February 2020

**Second Year
MICROBIOLOGY - I**

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. Who introduced the techniques of sterilization?
(a) Robert Koch (b) Louis Pasteur (c) John Needham (d) Joseph Lister
2. Indian ink staining is used to demonstrate:
(a) Cell wall (b) bacterial capsule (c) bacterial flagella (d) bacterial spore
3. All of the following are examples of enriched media except:
(a) Blood agar (b) chocolate agar (c) Leffler's agar (d) bile salt agar
4. Which toxin can be converted into toxoid by formaldehyde (a)
(a) Exotoxin (b) Endotoxin (c) Both of the above (d) none of the above.
5. How many serogroups of Neisseria meningitidis are known:
(a) Nine (b) twelve (c) thirteen (d) fifteen
6. Malignant pustule lesion found in
(a) Cutaneous anthrax (b) pulmonary anthrax (c) intestinal anthrax (d) none of the
7. Extraintestinal amoebiasis may occur in
(a) Liver (b) lung (c) brain (d) all of the above
8. Which of the following dermatophytes can infect hair, skin and nail
(a) Trichophyton (b) Microsporum (c) Epidermatophyton (d) All of the above
9. Which of the following is the smallest virus
(a) Papovavirus (b) parvovirus (c) Adenovirus (d) Reovirus
10. How many categories of biomedical waste are there
(a) Five (b) seven (c) eight (d) Ten

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. Tyndallisation
12. Mechanisms of Innate immunity
13. Diphtheria toxin
14. Prophylaxis against tetanus

(p.t.o)

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15. Describe the laboratory diagnosis of Ameobic dysentery
16. Write short notes on rabies virus
17. Aspergillosis

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Write in detail about identification of bacteria
19. Write short notes on: (I). lancefield grouping. (II). CAMP reaction.
20. Write short notes on Varicella – zoster virus
21. Write short notes on biomedical waste treatment and disposal.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Name the various classes of Immunoglobulin's. Describe the structure and properties of IgG.
23. Describe the life cycle of plasmodium and the laboratory diagnosis of malaria caused by this parasite.

(S.No.M22447)

