

Sl.No.: M23021

Sub. Code : 1010221

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University)

MBBS DEGREE EXAMINATION – October 2020

SECOND YEAR

MICROBIOLOGY – PAPER I

Time : Three hours

Maximum : 80 marks

Answer ALL questions

Draw diagrams wherever necessary

SECTION – A

I. Write Essay on: (1 x 10 = 10)

1. Draw a labelled diagram of bacterial cell. Discuss about the cell wall of gram positive bacteria. (5 + 5 = 10)

II. Write short notes on: (4 x 5 = 20)

2. Passive agglutination reaction.
3. Define antiseptic and name some antiseptic agents.
4. Lysogenic conversion.
5. IgE antibody.

III. Answer briefly: (5 x 2 = 10)

6. Autoclave.
7. Organ of adhesion in a bacterial cell.
8. Complement fixation test.
9. Classify vaccines with example.
10. Hypersensitivity reactions.

SECTION - B

I. Write essay on:

11. A 10 year child was brought to OPD with pain abdomen, suffering from high fever since last 10 days, toxic look, with the history of pea soup stool. Blood and stool sample was sent by the clinician to microbiology department of your college for the diagnosis. (2 + 3+ 1+ 1+ 3 = 10)
- a. How will you proceed for the diagnosis of the disease?
b. Discuss the serological test in details.
c. What are media used for the stool culture ?
d. When you will provide the blood culture report?
e. How will you manage the patients?

II. Write short notes on: (4 x 5 = 20)

12. CRP.
13. Carbuncle.
14. Arrangement of flagella.
15. Anaerobic culture methods.

III. Answer briefly: (5 x 2 = 10)

16. Define enriched media and give two examples.
17. Name four gram positive bacilli.
18. Name types of immunoglobulins.
19. Give four example of water born infections.
20. Name some beta lactam antimicrobial agents.
