

Sl.No. M23028

Course Code : 161022T01

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

MBBS DEGREE EXAMINATION – October 2020

Second Year

MICROBIOLOGY - PAPER I

SECTION A

Time: Fifteen Minutes

Maximum: 15 marks

Register Number :

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Signature of the candidate

Signature of the Invigilator

Instructions to the candidates

- 1. Write your Register Number and sign at the place specified on the first page of this Question Booklet.**
- 2. Do not open this question booklet until Invigilator announces the commencement of the examination.**
- 3. Answer ALL the Fifteen questions. They carry equal marks. No negative marking for wrong answers.**
- 4. Answers should be marked legibly in the SHEET provided in capital letters.**
- 5. THE QUESTION BOOKLET SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL.**
- 6. Questions should not be copied and taken out of the Examination Hall. Any one found violating this rule shall not be permitted to write the examination and shall be sent out of the Hall.**
- 7. At the end of 15 minutes, when the Invigilator announces 'STOP WRITING' you must stop writing immediately. If the candidate tries to attempt to answer the questions after the prescribed time, their answer script becomes invalid.**
- 8. Hand over the questions booklet containing answer sheet to the invigilator when you finish answering or immediately after 15 minutes.**

MICROBIOLOGY - PAPER I

SECTION-A (15X1-15 MARKS)

(Multiple choice questions)

Time: Fifteen Minutes

Maximum: 15 marks

Select the most appropriate answer and answer in the answer sheet attached:

1. Who introduced technique of Sterilisation?
 - A. Robert Koch
 - B. Louis Pasteur
 - C. Joseph Lister
 - D. Paul Ehrlich
2. Bacteria which require high level of carbon dioxide for growth are called
 - A. Chemotropic
 - B. Psychrophilic
 - C. Capnophilic
 - D. Mesophilic
3. Which of the following is commercially used for sterilisation of plastic item
 - A. Ethylene oxide
 - B. Glutaraldehyde
 - C. Ethyl alcohol
 - D. Autoclave
4. Penicillin resistance in Staphylococcus aureus is acquired by
 - A. Transformation
 - B. Transduction
 - C. Conjugation
 - D. Mutation
5. Clinical or subclinical infection induces
 - A. Natural passive immunity
 - B. Artificial passive immunity
 - C. Artificial active immunity
 - D. Natural active immunity
6. Classical complement pathway is activated by
 - A. Antigen
 - B. Antibody
 - C. Antigen-Antibody complex
 - D. None of the above

-- (2) --

7. Cell mediated immunity plays a role in
 - A. Allograft rejection
 - B. Type IV hypersensitivity reaction
 - C. GVHR
 - D. All of the above

8. Graft between two genetically non identical members of the same species is known as
 - A. Allograft
 - B. Autograft
 - C. Isograft
 - D. Xenograft

9. Draughtsman colony is a characteristic feature of
 - A. Streptococcus pyogenes
 - B. Streptococcus pneumoniae
 - C. Enterococcus faecalis
 - D. Viridians streptococci

10. Waterhouse Friderichsen syndrome is caused by
 - A. Gonococci
 - B. Meningococci
 - C. Staphylococci
 - D. Streptococci

11. Schick test is an example of
 - A. Agglutination
 - B. Precipitation
 - C. Neutralisation test
 - D. Flocculation test

12. 'Medusa head' appearance of colonies is a characteristic feature of
 - A. Clostridium perfringens
 - B. Clostridium tetani
 - C. Bacillus cereus
 - D. Bacillus anthracis

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13. What type of test is Widal?
- A. Agglutination
 - B. Precipitation
 - C. Immunodiffusion
 - D. Immunofluorescence
14. *Vibrio parahemolyticus* isolated from environmental source can be differentiated from those isolated from human cases by
- A. Modified CAMP test
 - B. Reverse CAMP test
 - C. Kanagawa phenomenon
 - D. All of the above
15. The most popular method employed for typing of *Pseudomonas aeruginosa* is
- A. Antibigram
 - B. Serotyping
 - C. Phase typing
 - D. Pyocin typing

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MICROBIOLOGY – PAPER I

Time : Three hours

Maximum : 80 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 15 marks – 15 minutes to be handed over to the invigilator immediately after 15 minutes

Answer Section B in the same answer book

Time : 2 hours 45 minutes

SECTION – B

Maximum : 65 marks

I. Write essays on :

(2 x 15 = 30)

1. a) Define immunity. (2)
- b) Classify immunity. (3)
- c) Describe in detail innate immunity. (10)
2. a) Enumerate sexually transmitted diseases. (3)
- b) Describe in detail pathogenesis of Syphilis. (5)
- c) Write in detail laboratory diagnosis of Syphilis . (7)

II. Short notes on :

(5 x 5= 25)

3. Bacterial cell wall
4. Autoclave
5. Type II Hypersensitivity
6. Toxigenicity tests for *Corynebacterium diphtheriae*
7. Botulism

III. Answer briefly on :

(5 x 2 = 10)

8. Cold sterilisation
9. Enriched medium
10. Hypochlorites
11. Draw a label bacterial growth curve
12. Transduction in Bacteria.
