

Sl.No. M21963

Course Code : 161022T01

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

MBBS DEGREE EXAMINATION – February 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. Lipopolysaccharide is a major component of cell wall in
 - A. Gram positive Bacteria
 - B. Gram negative Bacteria
 - C. Fungi
 - D. Parasites

2. Low redox potential culture medium is required for growth of
 - A. Anaerobic bacteria
 - B. Escherichia coli
 - C. Pseudomonas
 - D. Staphylococci

3. The most widely used disinfectant for HIV infected material is
 - A. Hypochlorite solution
 - B. Lysol
 - C. Formaldehyde
 - D. Mercuric chloride

4. The process of transfer of genetic information from DNA to RNA is known as
 - A. Transformation
 - B. Transduction
 - C. Transcription
 - D. Translation

5. Vaccination induces
 - A. Natural passive immunity
 - B. Artificial passive immunity
 - C. Natural active immunity
 - D. Artificial active immunity

(p.t.o.)

6. Which immunoglobulin class distributed maximum intravascularly
 - A. IgG
 - B. IgM
 - C. IgA
 - D. IgE

7. VDRL Test is an example of
 - A. Agglutination
 - B. Flocculation
 - C. Immunofluorescence
 - D. Immunodiffusion

8. Delayed Hypersensitivity reaction is mediated by
 - A. T Lymphocytes
 - B. B Lymphocytes
 - C. Macrophages
 - D. All of the above

9. Tube coagulase test detects
 - A. Free coagulase
 - B. Bound coagulase
 - C. Both of the above
 - D. None of the above

10. CAMP test is done to identify
 - A. Streptococcus pyogenes
 - B. Streptococcus agalactiae
 - C. Streptococcus equisimilis
 - D. Streptococcus mitis

11. Babes-Ernst granules are present in
 - A. Mycobacterium tuberculosis
 - B. Mycobacterium leprae
 - C. Corynebacterium diphtheriae
 - D. Bacillus cereus

12. Floppy baby syndrome is associated with
- A. Clostridium botulinum infection
 - B. Clostridium perfringens infection
 - C. Clostridium difficile infection
 - D. Clostridium novyi infection
13. The name 'black death' has been given to
- A. Tularensis
 - B. Miliary tuberculosis
 - C. Legionnaire's disease
 - D. Plague
14. Hard chancre is a characteristic feature of
- A. Primary syphilis
 - B. Secondary syphilis
 - C. Tertiary syphilis
 - D. Latent syphilis
15. 'Sun ray appearance' morphology is characteristic of
- A. Actinomyces
 - B. Nocardia
 - C. Streptomyces
 - D. Actinomadura

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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 Sterilisation. (2)
- b) Classify Sterilisation. (3)
- c) Describe in detail Sterilisation methods practiced in Hospital. (10)
2. a) Classify the genus Vibrio. (3)
- b) Describe in detail Pathogenesis of Cholera. (6)
- c) Write about the laboratory diagnosis of Cholera. (6)

II. Short notes on : (5 x 5= 25)

3. Bacterial flagella
4. Pathogenesis of Tetanus
5. Type III Hypersensitivity
6. Laboratory diagnosis of Syphilis
7. Bacillary dysentery

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

8. MDR tuberculosis
9. DPT vaccine
10. Active immunity. Define with examples.
11. Widal test
12. Weil's disease.
