Sl.No. M21458 **Course Code : 161022T01**

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

MBBS DEGREE EXAMINATION – August 2019
Second Year
MICROBIOLOGY - PAPER I

SECTION A

Time: Fifteen Minutes **Maximum: 15 marks**

Register Number : | | | | | | | | | | |

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.**

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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. Which of the following bacteria has peritrichate flagella
   A. E.coli
   B. Klebsiella
   C. Pseudomonas aeruginosa
   D. Vibrio cholerae

2. Electron microscope was invented by
   A. Landsteiner
   B. Ruska
   C. Burnet
   D. Antony Van Leeuwenhoek

3. Selective medium for Neisseria meningitides
   A. Sheep blood agar
   B. Chocolate agar
   C. Thayer-Martin medium
   D. Bile salt agar

4. Griffith's experiment demonstrated the following method of gene transfer in bacteria
   A. Transformation
   B. Transduction
   C. Conjugation
   D. Lysogenic conversion

5. A carrier who acquires the pathogen from another carrier is called
   A. Contact carrier
   B. Paradoxical carrier
   C. Healthy carrier
   D. Convalescent carrier

(p.t.o.)

6. Deficiency of C1 inhibitor leads to
   A. Bacteremia
   B. Toxoplasmosis
   C. Hereditary angioneurotic oedema
   D. Systemic Lupus Erythematosus

7. VDRL test is an example for
   A. Slide agglutination
   B. Tube agglutination
   C. Neutralisation test
   D. Slide flocculation test

8. Immunoglobulin passively transferred from mother to foetus through placenta
   A. IgA
   B. IgM
   C. IgG
   D. IgE

9. Penicillin resistance in Staphylococcus aureus is due to the following reasons except
   A. Coagulase enzyme
   B. Beta lactamase production
   C. Alteration in bacterial receptor
   D. Tolerance

10. Streptococcus pyogenes produces the following diseases except
    A. Tonsillitis
    B. Scarlet fever
    C. Necrotising fasciitis
    D. Neonatal meningitis

11. Chancroid is a sexually transmitted disease produced by
    A. Chlamydia trachomatis
    B. Borrelia recurrentis
    C. Haemophilus ducreyi
    D. H. hemolyticus

12. Pigment producing bacteria are the following except
    A. Salmonella typhimurium
    B. Serratia marcescens
    C. Pseudomonas aeruginosa
    D. Chromobacterium violaceum

13. BCG vaccine is
    A. Live attenuated
    B. Killed
    C. Subunit
    D. Recombinant

14. Neil- Mooser reaction is positive in
    A. Epidemic typhus
    B. Endemic typhus
    C. Scrub typhus
    D. Brill-Zinsser disease

15. The vector transmitting plague is
    A. Trombiculid mite
    B. Ornithodorus tick
    C. Xenopsiella cheopis
    D. Ixodid ticks

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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) What is anaphylaxis? Describe the mechanism of anaphylaxis with diagram. (5)
b) What are the primary mediators and secondary mediators in anaphylaxis? (4)
c) How will you prevent anaphylaxis? (2)
d) What is passive cutaneous anaphylaxis? (4)

2. a) Enumerate 4 Spirochaetes producing diseases in humans and mention the diseases caused by them. (4)
b) Describe the different stages of Syphilis and the nonspecific and specific tests available for the diagnosis of Syphilis. (8)
c) How will you treat a case of Syphilis? (3)

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

3. Immunoglobulin A
4. Transduction
5. Laboratory diagnosis of pulmonary tuberculosis.
6. Halophilic vibrios
7. Prophylaxis of Tetanus.

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

8. Agglutination reaction
9. Tyndallisation
10. Satellitism
11. Q fever
12. Pathogenesis of Typhoid fever.

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