

Sl.No. M21507

Course Code : 161322T02

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

**BDS DEGREE EXAMINATION – August 2019
Second Year
GENERAL MICROBIOLOGY**

SECTION A

Time: Twenty Minutes

Maximum: 20 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 Twenty 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 20 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 20 minutes.**

GENERAL MICROBIOLOGY

SECTION-A (20X1=20 MARKS)

(Multiple choice questions)

Time: Twenty Minutes

Maximum: 20 marks

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

1. All the following are present in the cell wall of gram negative bacteria EXCEPT
 - A. Lipopolysaccharide
 - B. Teichoic acid
 - C. Periplasmic space
 - D. Peptidoglycan

2. Which of the following is used as a solidifying agent for bacterial culture media?
 - A. Yeast extract
 - B. Peptone
 - C. Beef extract
 - D. Agar

3. Which of the following immunoglobulin is seen in the secretion?
 - A. IgA
 - B. IgD
 - C. IgG
 - D. IgE

4. Streptococcus pyogenes comprises which Lancefield group?
 - A. Group A
 - B. Group B
 - C. Group C
 - D. Group D

5. Which of the following is a major virulence factor of Streptococcus pneumonia?
 - A. Polysaccharide capsule
 - B. M protein
 - C. Streptolysin O
 - D. Streptolysin S

(p.t.o.)

6. Which of the following is a specific test for detecting anti-treponemal antibodies?
 - A. Widal test
 - B. T.pallidum hemagglutination (TPH) test
 - C. VDRL
 - D. RPR
7. Thayer-Martin medium is used for isolation of organism for which disease?
 - A. Diphtheria
 - B. Meningococcal meningitis
 - C. Gonorrhoea
 - D. Gastroenteritis
8. The role of bacterial capsules as virulence factors is usually related to their ability to interfere with
 - A. Antibody binding
 - B. B lymphocyte activation
 - C. Phagocytosis
 - D. The release of interferon gamma and other macrophage activating cytokines.
9. Which of the following is gram negative coccus?
 - A. Staphylococcus
 - B. Streptococcus
 - C. Escherichia coli
 - D. Neisseria
10. Which of the following has a Chinese letter arrangement?
 - A. Corynebacterium diphtheriae
 - B. Clostridium tetani
 - C. Enterococcus faecalis
 - D. Treponema pallidum
11. Route of inoculation of pox virus is embryonated egg is
 - A. Yolk sac
 - B. Chorio – allantoic membrane
 - C. Amniotic sac
 - D. Allantoic cavity.
12. The vaccine currently used for Hepatitis B virus infection is prepared by
 - A. Recombinant DNA technology
 - B. Cell culture
 - C. Animal inoculation
 - D. Egg inoculation

13. African sleeping sickness is caused by which of the following protozoa?
 - A. *Entamoeba histolytica*
 - B. *Trypanosoma gambiense*
 - C. *Leishmania donovani*
 - D. *Plasmodium vivax*
14. Laboratory diagnosis of *Entamoeba histolytica* depends on identification of its cyst in the
 - A. Blood
 - B. Urine
 - C. Saliva
 - D. Stool
15. Cysticercosis is a parasitic disease caused by ingesting the eggs of
 - A. *Echinococcus granulosus*
 - B. *Taenia solium*
 - C. *Ascaris lumbricoides*
 - D. *Trichinella spiralis*
16. Ringworm of the scalp is known as
 - A. *Tinea capitis*
 - B. *Tinea pedis*
 - C. *Tinea unguium*
 - D. Onychomycosis
17. Moniliasis disease is caused by
 - A. *Histoplasma capsulatum*
 - B. *Blastomyces dermatitidis*
 - C. *Coccidioides immitis*
 - D. *Candida albicans*
18. All the following are food borne pathogens EXCEPT
 - A. *Salmonella*
 - B. *Shigella*
 - C. *Streptococcus pyogenes*
 - D. *Clostridium botulinum*
19. All the following pathogens cause urinary tract infection EXCEPT
 - A. *Escherichia coli*
 - B. *Klebsiella sp*
 - C. *Candida albicans*
 - D. *Clostridium tetani*.
20. Iatrogenic infection is the infection spread by
 - A. Insects
 - B. Animals
 - C. Clinician
 - D. Water

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BDS DEGREE EXAMINATION – August 2019

Second Year

GENERAL MICROBIOLOGY

Time : Three hours

Maximum : 70 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 20 marks – 20 minutes to be handed over to the invigilator immediately after 20 minutes

Answer Section B & C in the same answer book

Time : 2 hours 40 minutes

SECTION – B & C

Maximum : 50 marks

SECTION – B

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

1. Write a detailed account on principle of various types of enzyme linked immunosorbent assay. Add a note on its application.

II. Write short notes on : (3 x 5 = 15)

2. Bacterial growth curve
3. Coagulase test
4. Immunoprophylaxis of diphtheria.

SECTION – C

III. Write an Essay on: (1 x 10 = 10)

5. Mention the viruses causing the Hepatitis. Write the following on Hepatitis B virus – Morphology, pathogenesis, lab diagnosis and immunoprophylaxis.

IV. Write short notes on : (3 x 5 = 15)

6. Hydatid cyst
7. Amoebic dysentery
8. Laboratory diagnosis of candidiasis.
