

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

BDS DEGREE EXAMINATION – JANUARY 2021

Second Year

GENERAL PATHOLOGY AND MICROBIOLOGY  
SECTION A

Time: Twenty Minutes

Maximum: 20 marks

Register Number :

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Signature of the candidate

Signature of the Invigilator

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**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 PATHOLOGY**  
**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. Caspases are seen in
  - A. Cell division
  - B. Apoptosis
  - C. Necrosis
  - D. Inflammation
  
2. Caseous necrosis is seen in
  - A. Tuberculosis
  - B. Sarcoidosis
  - C. Gangrene
  - D. Infarction
  
3. Epithelioid cell is a modified
  - A. Macrophage
  - B. Lymphocyte
  - C. Eosinophil
  - D. Neutrophil
  
4. Wound contraction is mediated by
  - A. Epithelial cells
  - B. Myofibroblasts
  - C. Collagen
  - D. Elastin
  
5. Pale infarct is seen in all except
  - A. Lungs
  - B. Spleen
  - C. Kidney
  - D. Heart
  
6. Heart failure cells are seen in
  - A. Chronic venous congestion liver
  - B. Acute venous congestion liver
  - C. Chronic venous congestion lung
  - D. Acute venous congestion lung

(p.t.o)

7. Arthus reaction is
- A. Type I Hypersensitivity
  - B. Type II Hypersensitivity
  - C. Type III Hypersensitivity
  - D. Type IV Hypersensitivity
8. Ectopic rest of normal tissue is known as
- A. Hamartoma
  - B. Adenoma
  - C. Choristoma
  - D. Teratoma
9. Sarcomas spread most commonly via
- A. Lymphatic route
  - B. Hematogenous route
  - C. Implantation
  - D. Transcoelomic spread
10. Squamous metaplasia is seen in deficiency of
- A. Vitamin D
  - B. Vitamin A
  - C. Vitamin B<sub>12</sub>
  - D. Folic acid

## MICROBIOLOGY

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

11. The culture medium used for antibiotic susceptibility testing is
  - A. Sabouraud's dextrose agar
  - B. Mac – Conkey agar
  - C. Nutrient agar
  - D. Muller – Hinton Agar
  
12. The immunity developed by vaccination is
  - A. Natural active immunity
  - B. Artificial active immunity
  - C. Natural passive immunity
  - D. Artificial passive immunity
  
13. The sterilization method used for sterilizing milk is
  - A. Inspissation
  - B. Boiling
  - C. Pasterurization
  - D. Steaming
  
14. Predominant immunoglobulin present in the secretion is
  - A. IgG
  - B. IgA
  - C. IgM
  - D. IgD
  
15. Which of the following is the culture media for *M. tuberculosis*?
  - A. Lowenstein – Jensen medium
  - B. Loeffler's serum slope
  - C. Thayer – Martin medium
  - D. Chocolate Agar
  
16. Vincent's angina ( or trench mouth ) is caused
  - A. *Borrelia vincentii* in association with *Leptotrichiabuccalis*
  - B. *Borrelia burgdorferi* in association with *Leptotrichiabuccalis*
  - C. *Borrelia vincentii* in association with *Borrelia burgdorferi*
  - D. *Borrelia vincentii* in association with *Treponema pallidum*

(p.t.o.)

(Sl.No. M23079a)

17. Standard test for syphilis include

- A. RPR
- B. TPI
- C. TPHA
- D. FTA - ABS

18. Virus can be cultured on

- A. Enriched medium
- B. LJ Medium
- C. Cell culture
- D. Serum slope

19. Typical drumstick appearances of bacilli is generally seen in

- A. Clostridium perfringens
- B. Clostridium botulinum
- C. Clostridium tetani
- D. Clostridium histolyticum

20. Trematodes include

- A. Tapeworms
- B. Flukes
- C. Round worms
- D. Tapeworms and flukes

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**BDS DEGREE EXAMINATION – JANUARY 2021  
Second Year**

**GENERAL PATHOLOGY AND 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 separate answer book

Time: 2 hours 40 minutes

**SECTION – B& C**

Maximum: 50 marks

**SECTION – B  
GENERAL PATHOLOGY ( 25 MARKS)**

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

1. Define neoplasm. Define metastasis. List two routes of spread of malignant neoplasms. Describe the metastatic cascade.

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

2. Phagocytosis.
3. Congenital syphilis.
4. Virchow's triad.

**MICROBIOLOGY (25 MARKS)**

**SECTION – C**

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

1. Define hypersensitivity. Classify hypersensitivity and write in detail on the type I hypersensitivity reaction.

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

2. Bacterial growth curve.
3. Coagulase test.
4. Laboratory diagnosis of candidates.