

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

BDS DEGREE EXAMINATION – February 2020

First Year

GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY

SECTION A

Time: Twenty Minutes

Maximum: 20 marks

Register Number :

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**Signature of the candidate
Invigilator**

Signature of the

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 HUMAN PHYSIOLOGY AND BIOCHEMISTRY
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:

GENERAL HUMAN PHYSIOLOGY

1. The suicidal bag of the cell is
 - a. Centriole
 - b. Mitochondria
 - c. Lysosomes
 - d. Golgi apparatus

2. The other name for “cell eating” is
 - a. Phagocytosis
 - b. Pinocytosis
 - c. Exocytosis
 - d. Endocytosis

3. Increase in RBC count is called
 - a. Anemia
 - b. Leucocytosis
 - c. Polycythemia
 - d. Leukemia

4. The neurotransmitter at neuromuscular junction is
 - a. Acetylcholine
 - b. Epinephrine
 - c. Dopamine
 - d. GABA

5. Second heart sound is due to closure of
 - a. Mitral valve
 - b. Aortic valve
 - c. Tricuspid valve
 - d. None of the above

6. Normal respiratory rate is
 - a. 6 – 8 per minute
 - b. 12 – 16 per minute
 - c. 30 – 40 per minute
 - d. 72 per minute

7. Intrinsic factor is required for the absorption of
 - a. Vitamin C
 - b. Vitamin A
 - c. Vitamin B1
 - d. Vitamin B12

8. The chemical agent increasing the urine output is called
 - a. Cathartics
 - b. Anesthetics
 - c. Hipnotics
 - d. Diuretics

9. Lesion of cerebellum leads to
 - a. Habituation
 - b. in coordination
 - c. Sensitization
 - d. Neuropraxia

10. The receptor for audition is
 - a. Rod cells
 - b. Hair cells
 - c. Cone cells
 - d. Ganglion cells

(Sl.No. M22008)

BIOCHEMISTRY

11. Glycogen is
- A. Animal Polysachharide
 - B. Monosaccharide
 - C. Plant polysachharide
 - D. Mucopolysachharide
12. Which one of following is hypoglycemic hormone
- A. Insulin
 - B. Glucagon
 - C. Thyroid
 - D. Growth hormone
13. Example for lung surfactant
- A. Lysolecithin
 - B. Dipalmitoyl lecithin
 - C. Oxido reductase
 - D. Isomerase
14. Iminoacid present in protein is
- A. Phenyl alanine
 - B. Tyrosine
 - C. Tryptophan
 - D. Proline
15. Bile acids are derived from
- A. Phospholipids
 - B. Triacyl glycerol
 - C. Fatty acids
 - D. Cholesterol
16. In multiple myeloma which of the following protein level is increased?
- A. Albumin
 - B. THF protein
 - C. Bence jones protein
 - D. Hemopexin
17. Liver diagnostic enzyme is
- A. Alkaline Phosphatase
 - B. Acid Phosphatase
 - C. Alanine transaminase
 - D. Amylase

18. Rickets is due to deficiency of

- A. Vitamin A
- B. Vitamin B
- C. Vitamin C
- D. Vitamin D

19. Earlier marker of myocardial infarction is

- A. CK1
- B. CK 2
- C. CK 3
- D. AST

20. Thymine is present in which of the following

- A. rRNA
- B. tRNA
- C. mRNA
- D. DNA

(Sl.No. M22008)

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BDS DEGREE EXAMINATION – February 2020

First Year

HUMAN PHYSIOLOGY AND BIOCHEMISTRY

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 separate Answer Book

Time : 2 hours 40 minutes

SECTION – B & C

Maximum : 50 marks

SECTION – B

HUMAN PHYSIOLOGY (25 marks)

I. Write an essay on :

(1 x 10= 10)

1. Describe the uterine and hormonal change during different phases of menstrual cycle.

II. Write short notes on:

(3 x 5=15)

2. What is decompression sickness? How is it treated and prevented?
3. Describe the structure of juxtaglomerular apparatus. Briefly explain their functions.
4. Describe the functions of saliva.

SECTION – C

BIOCHEMISTRY (25 marks)

I. Write an essay on :

(1 x 10= 10)

1. What is normal blood glucose level? Describe how blood glucose is regulated?
Add note on diabetes mellitus. (1+6+3)

II. Write short notes on:

(3 x 5=15)

2. Lipoprotein and its clinical importance
3. List out the factors that influence the activity of an enzyme. Explain how it influenced.
4. Short notes on Vit C.