

Sl.No. M21922

Course Code : 161021T06

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

MBBS DEGREE EXAMINATION – October 2019

First Year

BIOCHEMISTRY - PAPER II

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.**

BIOCHEMISTRY - PAPER II
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. Aromatic amino acid is
 - A. Glycine
 - B. Serine
 - C. Proline
 - D. Phenylalanine

2. In brain, ammonia is detoxified as
 - A. Aspartate
 - B. Asparagine
 - C. Glutamine
 - D. Glutamate

3. Type I Tyrosinemia is due to deficiency of
 - A. Homogentisate oxidase
 - B. Tyrosinase
 - C. Fumaryl acetoacetate hydrolase
 - D. Tyrosine transaminase

4. Daily requirement of iron is
 - A. 10- 20 microgram
 - B. 0.1 – 0.5 gram
 - C. 0.1 – 0.5 milligram
 - D. 10 – 20 milligram

5. In cell cycle, DNA synthesis takes place in
 - A. G1 phase
 - B. G2 phase
 - C. Interphase
 - D. S phase

6. Formation of dUMP
 - A. S – adenosylmethionine
 - B. NADPH
 - C. Adrenodoxin
 - D. Molybdenum

(p.t.o.)

7. Increased sodium in blood occurs in
 - A. Vomiting
 - B. Chronic renal failure
 - C. Dehydration
 - D. Addison's disease

8. Serum creatinine is reduced in
 - A. Renal failure
 - B. obstructive urinary disease
 - C. Males
 - D. Low muscle mass

9. Marker of hepatocellular injury is
 - A. Alanine amino transferase
 - B. Alkaline phosphatase
 - C. Gamma glutamyltransferase
 - D. 5'Nucleotidase

10. Oncofetal protein is
 - A. CA-125
 - B. ALP
 - C. ACP
 - D. AFP

11. Amino acid used for conjugation in detoxification reaction is
 - A. Valine
 - B. Glycine
 - C. Aspartate
 - D. Leucine

12. Antibody present in secretions
 - A. IgG
 - B. IgM
 - C. IgA
 - D. IgD

13. Mechanism of insulin is mediated through
 - A. Tyrosine kinase
 - B. cAMP
 - C. cGMP
 - D. Calcium

-- (3) --

14. Decreased anion gap is seen in

- A. Multiple myeloma
- B. Diarrhea
- C. Renal failure
- D. Lactic acidosis

15. Sample for protein electrophoresis is

- A. Plasma
- B. Whole blood
- C. Arterial blood
- D. Serum

(Sl.No. 21922)

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First Year

BIOCHEMISTRY - PAPER II

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. Define translation. Discuss in detail about the steps involved in translation with diagrams. Add a note on post translational modifications and inhibitors of translation.
2. What is the normal pH of Blood? Explain the mechanisms involved in the maintenance of normal pH.

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

3. Phenylketonuria
4. Clearance test
5. Laboratory diagnosis of AIDS.
6. What are tumor markers? Classify and applications of tumor markers.
7. Structure of immunoglobulin.

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

8. Hypothyroidism
9. pH meter
10. Phase II detoxifications reactions.
11. Laboratory diagnosis of obstructive jaundice.
12. Functions of copper.
