

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

MBBS DEGREE EXAMINATION – February 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 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. Transport protein is
 - A. Collagen
 - B. Insulin
 - C. Immunoglobulin
 - D. Transferrin
2. C4, C5 & N7 of purine ring is formed by
 - A. Glycine
 - B. Glutamine
 - C. Asparagine
 - D. Alanine
3. Dinitro phenyl hydrazine test is positive with the urine of
 - A. Homocystinuria
 - B. Maple syrup urine disease
 - C. Phenylketonuria
 - D. Alkaptonuria
4. Prokaryotic DNA replication is inhibited by
 - A. Rifampicin
 - B. Ciprofloxacin
 - C. Puromycin
 - D. Streptomycin
5. Hypouricemia is due to
 - A. Abnormal PRPP
 - B. Glucose -6- phosphatase deficiency
 - C. Xanthine oxidase deficiency
 - D. HGPRTase deficiency
6. The trace element with antioxidant role
 - A. Chromium
 - B. Zinc
 - C. Selenium
 - D. Nickel
7. Metabolic acidosis with normal anion gap is seen in
 - A. Diarrhea
 - B. Diabetic ketoacidosis
 - C. chronic renal failure
 - D. Lactic acidosis

-- (2) --

8. Normal plasma potassium level is
 - A. 2.5 – 5.2 mmol/L
 - B. 3.0 – 6.0 mmol/L
 - C. 2.0 – 4.0 mmol/L
 - D. 3.5 – 5.2 mmol/L

9. Coenzyme for Cytochrome P450
 - A. FAD
 - B. NADH
 - C. NADPH
 - D. FMN

10. In L.F.T, Serum bilirubin estimation is to assess
 - A. Metabolic function
 - B. Synthesis
 - C. Prognosis
 - D. Excretory

11. Enzyme elevated in acute pancreatitis is
 - A. Lipase
 - B. Alanine transaminase
 - C. Aspartate transaminase
 - D. Alkaline phosphatase

12. Normal Glomerular Filtration is
 - A. 120 – 125 ml/minute
 - B. 130 -138 ml/minute
 - C. <120 ml/minute
 - D. 80 – 100 ml/minute

13. Second messenger for glucagon is
 - A. Tyrosin kinase
 - B. cAMP
 - C. cGMP
 - D. Calcium

14. Alpha feto protein is used as tumor marker for
 - A. Hepato cellular carcinoma
 - B. Choriocarcinoma
 - C. Colorectal cancers
 - D. Lung cancer

15. Amplification technique is
 - A. Southern blot
 - B. Western blot
 - C. Northern blot
 - D. Cloning

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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. Write in detail about the urea cycle. Add a note on its regulation and disorders of urea cycle. (7+3+5)
2. Discuss about the liver function test.

II. Write short notes on : (5 x 5 = 25)

3. Metabolic acidosis
4. Gout
5. Steps and applications of polymerase chain reaction.
6. Phase II reactions of detoxification.
7. Tumor suppressor genes.

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

8. Beer's Law and Lambert's Law.
9. Anion Gap
10. Lesch – Nyhan syndrome
11. Nucleotide analogues
12. Types and functions of Immunoglobulins.
