Sl.No. M21443 **Course Code : 161021T06**

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

MBBS DEGREE EXAMINATION – August 2019
First Year
BIOCHEMISTRY - PAPER II

SECTION A

Time: Fifteen Minutes **Maximum: 15 marks**

Register Number : | | | | | | | | | | |

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.**

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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. Which of the following causes increased urea level?
   A. Liver diseases
   B. Cardial disease
   C. Renal diseases
   D. Brain diseases

2. Which aminoacid forms the neurotransmitter acetyl choline
   A. Tyrosine
   B. Tryptophan
   C. Glutamic acid
   D. Serine

3. Which enzyme is deficient in albinism
   A. Tyrosinase
   B. Phenyl alanine hydroxylase
   C. Parahydroxy phenyl pyruvate oxidase
   D. Tyrosine dehydrogase

4. Which of the following is the enzyme for salvage pathway of purine?
   A. PRPP synthase
   B. Xanthine oxidase
   C. Hgprtase
   D. Adenosine deaminase

5. What is the initiation codon?
   A. UAL
   B. AVG
   C. UCA
   D. ACU

(p.t.o.)

6. What is the main cation of extra cellular fluid?
   A. Calcium
   B. Potassium
   C. Sodium
   D. Magnesium

7. Which of the following is a cause of respiratory acidosis
   A. Obstruction to respiration
   B. Diabetes melitus
   C. Starvation
   D. Hyperventilation

8. Which mineral association is favoured by ascorbic acid
   A. Iron
   B. Calcium
   C. Magnesium
   D. Selenium

9. Which of the following is not a second messanger?
   A. NADPH
   B. C.GMP
   C. C.AMP
   D. Diacylclycerol

10. Which organ function test include prothrombin time
   A. Cardiac
   B. Liver
   C. Renal
   D. Gastric

11. Whch aminoacid increase has a risk for myocardial infarction?
   A. Homocysteine
   B. Serine
   C. Alanine
   D. Phenyl Alanine

12. Which cytochrome is involved in biotransformation by hydroxylation
    A. Cytochrome ag3
    B. Cytochrome C
    C. Cytochrome P450
    D. Cytochrome B

13. What type of gene is retinoblastoma RB gene
    A. Proto oncogene
    B. Oncogene
    C. Carcinogen
    D. Tumor suppressor gene

14. What is the conjucating substance for cyanide?
    A. Thiosulphate
    B. Sulphate
    C. Cysteine
    D. Glucuronic acid

15. What is the cause for xeroderma pigmentosa
    A. Defective mismatch repair
    B. Defective oligonucleotide excision repair
    C. Defective base excision repair
    D. Defective double strand break repair.

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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. How is phenyl alanine metabolised with added notes on inherited disorders of tyrosine.

2. How are purine nucleotides catabolised? What are the disorders associated with it with the investigations for it.

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

3. Creatinine
4. Acid base disorders
5. Enzymes estimation in acute myocardial infarction
6. PCR
7. Tumour markers

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

8. Mention the name of the tests to asses the synthetic function of liver with normal valves.
9. Name two radio isotopes used in diagnosis of diseases
10. Give two examples for detoxification by conjugation.
11. Give two examples of post translational modifications.
12. Write any two tumor markers and the tumor associated with them.

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