## First year M.B.B.S Examination

June / july - 201,6

Biochemistry: Paper -I

گر عور Time: .... hours

Code: 9666

Total Marks: 50

Instruction: (1) Use separate answer books for each section

- (2) Answer should be to the point and handwriting should be readable
- (3) Draw flow charts wherever applicable,

## SECTION -I

1. State true or false with justification on any five

10

- a) C peptide is a structural constituent of active Insulin and has diagnostic importance.
- b) Punctuator codons do not code for any perticular amino acids
- c) Cardiac troponin enzyme is a poor marker for myocardial infarction.
- d) Several important substances are derived from cholesterol
- e) Leucine is non-essential and purely glucogenic amino acid
- f) Resctriction endonucleases are referred as molecular scissors
- 2. Discuss any one6
  - 1) Factors affecting enzyme activity
  - 2) Initiation steps of protein biosynthesis
- 3. Write short notes on any three
  - 1. Essential fatty acids
  - 2. Replication bubble
  - 3. Active transport mechanisms
  - 4. Biologically important peptides

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4. Write comments on any <b>five</b>	10
<ol> <li>Uncouplers of ETC increase body temperature</li> <li>Niacin therapy helps in treating hypercholesterolemia</li> <li>Frame shift mutation is more harmful than point mutation.</li> <li>Aspirin administration to new born having jaundice can cause Kees</li> <li>Degeneracy and wobbling can reduce the effect of mutations</li> <li>Chloride shift helps in maintaining electrical neutrality of RBC's</li> </ol>	ernicterus.
<ul> <li>5. Discuss any one</li> <li>1. Phospholipids</li> <li>2. Hybridization techniques</li> <li>6. Write short notes on any three</li> <li>1) Immunoglobulins</li> </ul>	9
1. Phospholipids 2. Hybridization techniques 6. Write short notes on any three 1) Immunoglobulins 2) Mutations 3) Mucopolysaccharides 4) Operon concept	