

Q.P. Code: 105001 Reg. No.: .....

## First Professional MBBS Degree Supplementary Examinations January 2020 Biochemistry – Paper I

Time: 3 Hours Total Marks: 50

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- · Answer all parts of a single question together · Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay (10)

 What are biologically important compounds derived from tyrosine. Explain the catabolism of tyrosine and name three inborn errors associated with tyrosine metabolism. (2+6+2)

Short essays (2x5=10)

- Mention the major functions of HMP shunt pathway. Explain its importance in erythrocytes.
- Discuss the detoxification of ammonia in the body. Mention two inborn errors associated with it.

Short notes (5x3=15)

- What is transamination. Explain the diagnostic significance of any one serum transaminase.
- What is glutathione and mention its importance in the body.
- Name inhibitors of electron transport chain and state at what level they act.
- Role of carnitine in fatty acid oxidation with the help of a diagram.
- Von-Gierke's disease.

Answer briefly (5x2=10)

- What is isoelectric pH and mention its significance.
- What are lipotropic factors and name them.
- Differentiate between starch and glycogen.
- Classify amino acids based on its metabolic fate.
- List two examples for competitive inhibition with its clinical applications

## Give precise answers (5x1=5)

- 14. What is gamma amino butyric acid and mention one function.
- Name the enzyme that is absent in galactosemia.
- 16.Name the reducing substances excreted in urine
- What are the iso-enzymes of creatine phosphokinase.
- What are the components of membrane that alter the fluidity.

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