Total Pages: 2

Time: Three Hours

Maximum Marks: 80

2

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Attempt total six questions, Question No.1 is compulsory. Note: i) From the remaining questions attempt any five.

Illustrate your answer with neat sketches wherever necessary.

a) Fill in the blanks.

Glucose is \_\_\_\_ constituent of Urine.

Enzyme which catalyse transfer of functional group is known

amino acid. iii) Phenylalanine is

iv) Pectin is saccharide.

Match the column.

Column 'A' Vitamin C

Column 'B' A) Saturated fatty acid

Oleic acid

B) Unsaturated fatty acid

iii) Stearic acid

C) Riboflavin

iv) Vitamin B. Define:

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D) Ascorbic acid

i) Hypoglycemia

ii) Hepatitis

State true or false.

Pectin is polysaccharide.

Fructose is disaccharide

iii) Creatinine is normal constituent of urine

iv) Myristic acid is unsaturated fatty acid

e) Give the structure of one essential amino acid. 2

Attempt any two:

Give the structure of the following: Glucose

ii) Fructose

Maltose

iv) Starch

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P.T.O.

 $2 \times 7$ 

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[2]

Explain the chemical properties of monosaccharide.

Enlist disease related to carbohydrate metabolism. Describe any

one of them.

2×7

3. Attempt any two:

a) Classify enzymes with example.

Discuss various factors affecting enzyme action.

Explain the properties and specificity of enzymes.

Write note on any two:

2×7

Kreb's cycle

Glyconeolysis

Urea cycle

2×7

Write note on any two: Water soluble vitamin

Disorder of lipid metabolism

Classification of amino acids

 $2 \times 7$ 

Attempt any two Explain the importance of Iron and potassium in human body.

Give the identification test for proteins

Write brief note on:

i) Osazone formation

ii) Molisch test

Attempt any two:

2×7

a) Give the physiological role of erythrocytes in the body. Dibe 4

How the following disease can be identified by analysing urine.

Discuss the pathway of oxidation of lipids.

Attempt any two:

2×7

a) Describe source, functions and deficiency disease of Vitamin E.

Discuss the deficiency disease of the following:

Iron 1)

lodine

Discuss the importance of water metabolism in human being.



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