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FNS 404

I Semester M.Sc. Degree (CBCS) Examination, December 2018
FOOD SCIENCE AND NUTRITION
Nutritional Biochemistry

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any five** of the following (**not** exceeding **2** pages **each**) : **(5×3=15)**

- a) Isozymes
- b) Cytochromes
- c) Pyrimidines
- d) Urea formation
- e) Gluconeogenesis
- f) Lipoprotein
- g) Catalytic activity of enzyme
- h) Specificity of enzymes.

2. Write explanatory notes on **any five** of the following (**not** exceeding **3** pages) : **(5×5=25)**

- a) HMP shunt
- b) Different types of RNA
- c) Chemiosmotic theory
- d) Inhibitors of electron transport chain
- e) Coenzymes and cofactors
- f) Factors affecting the enzyme action
- g) Synthesis of haemoglobin
- h) Functions of prostaglandins.

P.T.O.



3. Answer **any three** of the following (**not** exceeding **5** pages **each**) : **(3×10=30)**

- a) Explain Cholesterol biosynthesis and regulation.
 - b) Describe components of ETC and add a note on enzymes involved.
 - c) Discuss the stages of oxidation of saturated fatty acids.
 - d) Elucidate the enzyme kinetics.
 - e) Discuss regulatory functions and mechanism of protein hormone action.
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