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BSH 401

First Semester M.Sc. Degree Examination, December 2018
(CBCS)
BIOSCIENCES
Biochemistry

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**) : **(4×4=16)**
- a) Monosaccharides
 - b) Iodine number of fatty acids
 - c) Denaturation of proteins
 - d) Phospholipids
 - e) Creatine metabolism
 - f) Transamination.

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**) : **(5×6=30)**

- 2. Homopolysaccharides
- 3. Triacylglycerol biosynthesis
- 4. LDL metabolism
- 5. Glycogenolysis
- 6. Beta-Oxidation of fatty acids
- 7. Ketogenesis
- 8. Compounds derived from Phenyl alanine.

Answer **any two** of the following (**not** exceeding **8** pages **each**) : **(2×12=24)**

- 9. Enumerate the steps involved in biosynthesis of cholesterol and add a note on biologically important compounds derived from cholesterol.
 - 10. Explain the steps of hexose monophosphate shunt. Write a note on its importance.
 - 11. Discuss the chemistry and properties of proteins with suitable examples.
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