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Total No. of Printed Pages: [1]

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B.Sc. Operation Theater Technology (Semester – 1st)

APPLIED BIOCHEMISTRY

Subject Code: BOTTS1102

Paper ID: [20131902]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Explain the following terms in not more than 5 lines each:

- a) Ribosomes
- b) Essential fatty acids
- c) Amino acid
- d) Balanced diet
- e) ATP
- f) Diabetes mellitus
- g) Deamination
- h) Atherosclerosis
- i) Acetylcholine
- j) Donnan membrane equilibrium

Section – B

(5 marks each)

- Q2. What are enzymes? Discuss the factors that affect enzyme action.
- Q3. What are vitamins? Name fat soluble vitamins and discuss their functions.
- Q4. Discuss the diet for post-operative patients.
- Q5. What is transamination? Discuss its importance.
- Q6. Discuss the role of insulin and glucagon in blood glucose regulation.

Section – C

(10 marks each)

- Q7. What are carbohydrates? Discuss different classes of carbohydrates.
- Q8. Discuss the steps of glycolysis in detail.
- Q9. What is acidosis? Discuss regulation of blood pH.