Roll No……..….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [09]

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.