BIOCHEMISTRY

Total Duration: 2 Hours

Instructions: 1) Use blue/black ball point pen only.
2) Do not write anything on the blank portion of the question paper.
   If written anything, such type of act will be considered as an attempt
to resort to unfair means.
3) All questions are compulsory.
4) The number to the right indicates full marks.
5) Draw diagrams wherever necessary.
6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
7) Use a common answerbook for all sections.

1. Short answer question (any five out of six): [5 x 3 = 15]
   a) State the Functions of Calcium.
   b) Enumerate the different types of glycosaminoglycans and state three functions.
   c) Define transamination and state the significance of transamination reactions.
   d) State the causes and type of anemia observed in iron deficiency anemia.
   e) Classify proteins based on their functions.
   f) Name the active form of Vitamin D and explain deficiency manifestations of Vitamin D.
2. Short answer question (any five out of six):

a) Explain how temperature, pH, concentration of enzyme, substrate and the product formed affect enzyme activity.

b) State the precursor and end product of glycogenesis and glycogenolysis and add a note on glycogen storage diseases.

c) Explain the digestion and absorption of proteins.

d) Classify lipids with Examples and state four functions of Cholesterol.

e) State the dietary sources, functions and deficiency manifestation of Vitamin C.

f) Draw a diagram to depict catabolism of Heme and add a note on Jaundice.

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