63113

First B.P.Th. (2012) Examination, Summer 2018
BIOCHEMISTRY

Total Duration : 2 Hours

Total Marks : 40

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) : **(5×3=15)**
   a) Name ketone bodies. Elaborate the pathway of ketogenesis.
   b) Explain factors affecting enzyme action.
   c) Write a note on specific dynamic action.
   d) Draw schematic representation of Citric acid cycle.
   e) Discuss functions of calcium.
   f) Write short on Gout.

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Describe mechanisms and biochemical events during muscle contraction.
   b) Give an account of diagnostic use of enzymes and isoenzymes.
   c) Define proteins. Classify proteins depending on their functions with suitable examples.
   d) Classify hormones on basis of their action with suitable examples. Explain role of cAMP as second messenger of hormone action.
   e) Explain oxidation of palmitic acid along with its energetics.
   f) Write dietary sources, RDA, biochemical functions and deficiency manifestations of Vitamin B1.
