

**63113****First B.P.Th. (2012) Examination. Winter 2017
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) : **(5x3=15)**
 - a) Write note on cardiac enzymes.
 - b) Mechanism of steroid hormone action.
 - c) Discuss biochemical events during muscle contraction.
 - d) Define specific Dynamic Action and give its significance.
 - e) Discuss Transamination and its significance. Add a note on diagnostically important Transaminases.
 - f) Give functions of Magnesium and Zinc.
2. Short answer question (**any five** out of six) : **(5x5=25)**
 - a) Discuss Diabetes Mellitus and metabolic changes in carbohydrate, protein, lipid in it.
 - b) Give an account of sources, functions, RDA and deficiency manifestations of Vitamin C.
 - c) Discuss Beta-oxidation of fatty acids with its energetics.
 - d) Describe Urea cycle. Discuss its regulation and disorders.
 - e) Define Enzyme inhibition. Discuss types of inhibition with suitable examples.
 - f) Name the ketone bodies. Discuss the metabolism and significance of ketone bodies.