



63113

First B.P.Th. (2012) Examination, Summer 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) : (5×3=15)
  - a) State the deficiency manifestations of vitamin A.
  - b) What are trace elements ? Give functions of any three.
  - c) Describe different RNAs and their functions.
  - d) Describe digestion and absorption of proteins.
  - e) State biochemical role of vitamin C along with the deficiency disorders.
  - f) State functions of cholesterol and its significance.
  
2. Short answer question (**any five** out of six) : (5×5=25)
  - a) What is ketosis? Discuss the causes and illeffects of it.
  - b) Describe competitive inhibition of the enzymes with suitable examples.
  - c) Define hyperglycaemia and glycosuria. State the causes of them.
  - d) Explain Beta oxidation of palmitic acid and its energetics.
  - e) Describe sources, RDA, biochemical role and deficiency manifestations of calcium.
  - f) What are liver function tests? Describe tests of synthetic function-type.