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## First B.P.Th. (2012) Examination, Summer 2016 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 qbestions 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 answer book for all Sections.
- 1. Short answer question (any five out of six):

(5x3=15)

- a) Classify polysaccharides giving suitable examples.
- b) Classify lipoproteins, stating their significance.
- c) Define essential amino acids and state their significance.
- ) Explain structure of DNA.--7

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- e) Describe functions, deficiency disorders of iodine.
- f) State the role of isoenzymes in clinical diagnosis.
- 2. Short answer question (any five out of six):

(5x5=25)

- a) Describe the biochemical functions, RDA, deficiency manifestations of Vitamin A.
- b) Enumerate glycogen storage diseases and their significance.
- c) Write short answer on ketosis, ketogenesis and ketonuria.
- d) Explain competitive inhibition of enzyme with examples.
- e) What are liver function tests? Explain excretory type of functions.
- f) Explain location, sources of substrates and regulation of Urea cycle.

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