

**63113**

First B.P.T.H. (2012) Examination, Winter 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) 411 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) Compare the functions of DNA and RNA.
- b) Describe the role of cyclic AMP as a second messenger.
- c) Explain Liver function tests based on detoxification function.
- d) What are Kwashiorkor and marasmus ? Compare their features.
- e) Write note on dehydration.
- f) State the functions and deficiency disorders of iron.

2. Short answer question (**any five** out of six) :**(5x5=25)**

- a) Define the isoenzymes. Write the diagnostic importance.
 - b) Describe sources, daily requirement, functions and deficiency manifestations of vitamin C.
 - c) What are the ketone bodies ? Write an account on ketogenesis with its regulation.
 - d) Define proteins and classify functionally with suitable examples.
 - e) Draw flow chart of glycolytic pathway and write its significance.
 - f) Write a note on obesity.
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