

First B.P.T.H. (2012) Examination, Summer - 2021
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 answer book for all sections.

1. Short answer question (**any five** out of six): **[5 × 3 = 15]**
 - a) Nutritional importance of calcium.
 - b) Wald's visual cycle.
 - c) Functions of essential fatty acids.
 - d) Diagnostic and prognostic enzymes in cardiac disease.
 - e) Define and classify vitamins.
 - f) Difference between starch and glycogen.

2. Short answer question (**any five** out of six): **[5 × 5 = 25]**
 - a) Give definition, types and clinical features of diabetes mellitus.
 - b) Write functions, sources, deficiency manifestations of iron.
 - c) Describe functional classification of proteins with suitable examples.
 - d) Describe the metabolism of glycogen.
 - e) Define BMR. Give its normal value in adults and factors affecting BMR.
 - f) Describe mechanism of action of steroid hormones.

