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First P.B.B.Sc. Nursing Examination, Summer - 2021

BIOCHEMISTRY AND BIOPHYSICS

Total Duration : 3 Hours

Total Marks : 75

- 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.

SECTION "A" (45 Marks)

(Biochemistry)

1. Short answer questions (**any five** out of six) : [5 × 5 = 25]
 - a) Describe Step of Urea Cycle.
 - b) Define glycolysis with its significance.
 - c) Write Classification of Lipids with suitable example.
 - d) Balance diet.
 - e) Describe the factors affecting enzyme action.
 - f) Give the classification of lipoproteins.

2. Long answer questions (**any two** out of three) : [2 × 5 = 10]
 - a) Describe the international classification of Enzymes with example.
 - b) Give the Classification of Carbohydrate with suitable example.
 - c) Describe the various factors regulating blood glucose level.

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3. Short answer questions (**any two** out of three) : [2 × 5 = 10]
- a) Describe the functions , sources and deficiency manifestations of Iron.
 - b) Describe the functions ,and deficiency manifestations of Vitamin C
 - c) TCA cycle and its importance.

SECTION "B" (30 Marks)

(Biophysics)

4. Short answer questions (**any four** out of five): [4 × 5 = 20]
- a) Write a note on Diathermy.
 - b) Cathode Ray Oscilloscope ✓
 - c) Infra Red light and its uses ✓
 - d) What is surface tension? Give its applications. ✓
 - e) What is ultrasonic sound? give its uses. ✓
5. Long answer questions (**any one** out of two): [1 × 10 = 10]
- a) What is sub-atmospheric pressure? What are its clinical applications?
 - b) State Newton's first law of motion. What is curvilinear motion? Write in brief about its applications.

