Reg. No:
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## First Year Post Basic B.Sc Nursing Degree Regular/Supplementary Examinations October 2024

## Biochemistry & Biophysics (2016 Scheme)

Time: 3 Hours Total Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
  Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw diagrams wherever necessary Write section A and section B in separate answer books (32 pages). Do not mix up questions from section A and section B.

QP Code: 113011 Section A – Biochemistry Marks: 40

Short Essays: (2x7=14)

1. What is Gluconeogenesis. Enumerate the different substrates and write in detail the synthesis of Glucose from Lactate. (1+2+4)

2. Digestion and absorption of Proteins.

Short Notes: (2x5=10)

- 3. Name the plasma proteins. Write any three functions of Albumin
- 4. Name the different lipoprotein. Write the significance of any two

Answer briefly: (4x4=16)

- 5. Fluid mosaic model of Bio membrane.
- 6. Ketone bodies and its utilization.
- 7. Factors affecting enzyme action
- 8. Gout

QP Code: 114011 Section B- Biophysics Marks: 35

Short Essays: (3x7=21)

1. Define the boiling point and melting point. What is the importance of relative humidity in the medical field. What is the relation between Joule and Calorie.

- 2. What is a half-life period. Explain the use of radioisotopes in medicine.
- 3. Explain intracranial pressure. Differentiate between systolic and diastolic pressure

Short Notes: (2x4=8)

- 4. Explain the use of ultrasound in medical diagnosis
- 5. Narrate in detail about the radiation hazards and precautions to prevent the radiation hazard.

Answer Briefly: (2x3=6)

- 6. What is myopia. How it can be corrected.
- 7. What is thermal conductivity. Why is mercury used as a thermometer liquid

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