

[PBBSCN 0921]

SEPTEMBER 2021  
(FEBRUARY 2021 SESSION)

Sub. Code: 4884

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER III – BIOCHEMISTRY AND BIOPHYSICS**

*Q.P. Code: 684884*

**Time : Three Hours**

**Maximum : 75 Marks**

**Answer Section A and B in a SEPARATE answer book.**

**SECTION - A  
(BIOCHEMISTRY)**

**I. Elaborate on:** (1 x 15 = 15)

1. Glycogen metabolism in detail.

**II. Write notes on:** (3 x 5 = 15)

1. Essential fatty acids with example.
2. Phospholipids.
3. Cori cycle.

**III. Short answers on:** (5 x 2 = 10)

1. Plasma proteins.
2. Lipotropic factors.
3. Hyperglycemia.
4. Clinically important enzymes.
5. Ribosomes.

**SECTION - B  
(BIOPHYSICS)**

**I. Elaborate on:** (1 x 15 = 15)

1. Write a note on ECG, EEG, EMG, ECT.

**II. Write notes on:** (2 x 5 = 10)

1. Explain the structure of an atom.
2. Explain doppler effect.

**III. Short answers on:** (5 x 2 = 10)

1. State Boyle's law and Charle's law.
2. Computed tomographic scanning (CT Scan).
3. Explain heat capacity.
4. What is specific gravity?
5. Equation for relationship between energy, frequency and wavelength of light.

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