

[LN 824]

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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: $(1 \times 15 = 15)$

Explain the process of Gluconeogenesis.

II. Write notes on: $(3 \times 5 = 15)$

- Write a brief note on Gout.
 - 2. Role of liver in fat metabolism.
 - Explain oxidative phosphorylation.

III. Short answers on: $(5 \times 2 = 10)$

- Name some of the electrolytes and their sources.
- Lock and key model.
- Name any two of the plasma proteins and their functions.
- Write some factors affecting the absorption of carbohydrates.
- Ketone bodies.

SECTION - B (BIOPHYSICS)

I. Elaborate on: $(1 \times 15 = 15)$

Describe briefly the use of various electronic equipments in patient care.

II. Write notes on: $(2 \times 5 = 10)$

- Instruments used for detecting ionizing radiation.
- What is radioactivity? Give the names of two isotopes and their applications in medicine.

III. Short answers on: $(5 \times 2 = 10)$

- Myopia and Hyper-metropia.
- Law of conservation of energy.
- Temperature scales.
- Noise pollution.
- Half-life of a radio-active element with an example.

