

[LN 824]

www.FirstRanker.com AUGUST 2018

www.FirstRanker.com Sub. Code: 4884

POST BASIC BACHELOR OF SCIENCE IN NURSING DEGREE EXAMINATION

FIRST YEAR – NON SEMESTER

PAPER III – BIOCHEMISTRY AND BIOPHYSICS

O.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: $(1 \times 15 = 15)$

1. Explain the process of Gluconeogenesis.

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

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

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

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

<u>SECTION - B</u> (BIOPHYSICS)

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

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

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

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

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

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