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[KW 824] Sub. Code: 4884

B.Sc (Nursing) DEGREE EXAMINATION

(For Trained Nurses)

First Year

Non-Semester

Paper III - BIOCHEMISTRY AND BIOPHYSICS

Q.P. Code: 684884

Time: Three hours Maximum: 75 marks

Answer All questions.

Answer Section A and B in a SEPARATE answer book.

SECTION – A (BIOCHEMISTRY)

I. Essay: $(1 \times 15 = 15)$

 Define Gluconeogenesis. Write in detail the pathway and regulation of gluconeogenesis.

II. Write Short Notes on :

 $(3 \times 5 = 15)$

- Ketone bodies.
- Plasma proteins and their functions.
- Mitochondria.

III. Short Answer Questions:

 $(5 \times 2 = 10)$

- 1. What is normal serum levels of sodium and potassium?
- Name two digestive enzymes.
- Define Glycogenolysis.
- Write two enzymes that are elevated in jaundice.
- What are lipo proteins? Give two examples.

SECTION - B (BIOPHYSICS)

I. Essay: $(1 \times 15 = 15)$

 Describe the various types of pulleys and explain the lever mechanism in the human body.

II. Write Short Notes on :

 $(2 \times 5 = 10)$

- Pulse oximeter.
- Application of light in nursing.

III. Short Answers Questions:

 $(5 \times 2 = 10)$

- 1. What is centrifugal force?
- 2. What is the use of Calorimeter?
- 3. What is ocular pressure?
- 4. What is piezo electric effect?
- 5. What is electrolysis?

