

**PQP CODE: 1311**

**Reg. No:.....**

First Post Basic B Sc Nursing Examinations - September 2011

**BIOCHEMISTRY AND BIOPHYSICS**

**Time: 3 Hours**

**Total Marks: 75**

- ANSWER ALL QUESTIONS.
- DRAW DIAGRAMS WHEREVER NECESSARY
- WRITE **SECTION A AND SECTION B IN SEPARATE ANSWER BOOKS. DO NOT MIX UP QUESTIONS FROM SECTION A AND SECTION B.**

**SECTION A-BIOCHEMISTRY**

**Marks: 37½**

**Essay:**

**(10)**

1. What is the normal blood urea level. Write the reactions of urea cycle. Name four causes of increased blood urea level. (1+7+2=10)

**Write short notes on:**

**(4x5=20)**

2. Write the importance of five diagnostically important enzymes.
3. Name the hormones involved in blood sugar regulation. Write the role of hypoglycemic hormone.
4. Name the lipoproteins. Mention their functions.
5. Function of the plasma proteins.

**Write briefly:**

**(3x2 ½ =7 ½)**

6. Name the electrolytes. Write their normal levels.
7. Mention the enzymes deficient in lactose intolerance. Write the clinical manifestations.
8. What are essential amino acids. Name them.

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**SECTION B- BIOPHYSICS**

Marks: 37½

Essay:

(10)

1. Define ultrasound. Explain the different types of ultrasound. Give the biomedical applications of ultrasound.

(2+3+5=10)

Write short notes on:

(4X5:20)

2. Arterial blood pressure.
3. Explain the temperature regulation of the human body.
4. Explain refractive errors of eye with their treatment.
5. Explain the uses of radioisotopes in medicine.

Write briefly:

(3X2½=7½)

6. Draw a neat labeled diagram of normal ECG
7. Define vector scalar motion with suitable example.
8. Ohm's law.

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