First Year Post Basic B.Sc Nursing Supplementary Examinations- April 2016

• Write sec	BIOCHEMISTRY AND BIOPHYSICS all questions. Draw diagrams wherever nece ction A and section B in separate answer mix up questions from section A and sect	books(32 pages).
QP CODE: 10301	<b>1</b> Section A - BIOCHEMISTRY	Marks: <b>37</b> 1⁄2
Essay:		(10)
1. Explain the steps of	f urea cycle. Mention the causes of increase	ed blood urea level
Short notes:		(4x5=20)
<ol> <li>Discuss the function</li> <li>Draw a neat labelled</li> </ol>		
Answer briefly:		(3x2 ½ =7 ½)
7. Mention the defect a	es involved in water and electrolyte balance and clinical manifestations of lactose intoler odies. List the causes of ketosis	ance
QP CODE: 10401	1 Section B- BIOPHYSICS	Marks: <b>37</b> ½
Essay:		(10)

1. Explain the principle of electroencephalography (EEG). Describe how EEG is recorded. Mention the clinical significance of EEG.

## Short notes:

- 2. Define gravity. Explain the effects of gravity on human health.
- 3. Define the isotopes, isobars and isomers. Give suitable examples.
- 4. Mention the types of ultrasound. Explain the biomedical applications of ultrasound.
- 5. Define light. Explain the effects of light in therapy.

## Answer briefly:

- 6. Mention the effects of noise pollution.
- 7. Define force, work and energy.
- 8. Define arterial blood pressure. Mention its normal value.

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(4x5=20)

(3x2<sup>1</sup>/<sub>2</sub>=7<sup>1</sup>/<sub>2</sub>)