Reg. No:..... First Year Post Basic B.Sc Nursing Supplementary Examinations October 2017

(2010 Scheme)

BIOCHEMISTRY AND BIOPHYSICS

Total Marks: 75

 $(3x2\frac{1}{2}=7\frac{1}{2})$

	Write section	uestions. Draw diagrams wherever necessa n A and section B in separate answer boo up questions from section A and section	oks(32 pages).
C	P CODE: 103011	Section A - BIOCHEMISTRY	Marks: 37 ½
E	ssay:		(10)
1.	Discuss the diagnostic and therapeutic importance of enzymes with examples		
S	hort notes:		(4x5=20)
3. 4.	Mention the normal levels of cholesterol. Name products synthesized by it. Mention the causes of increased cholesterol level. Discuss the role of RNAs in protein synthesis Glucose tolerance test Outline steps of urea synthesis		
6. 7.	nswer briefly: Name the proteolytic e Mention the normal lev Mention the functions o	vels of sodium. Mention its functions	(3x2 ½ =7 ½)
C	P CODE: 104011	Section B- BIOPHYSICS	Marks: 371/2
Е	ssay:		(10)
1.	Define voltage, current and resistance. Explain Ohm's Law. Add a note on membrane potential.		
S	hort notes:		(4x5=20)

- 2. Define isotopes, isobars and isomers and mention suitable examples.
- 3. What is meant by artificial pacemaker and add a note on its clinical significance.
- 4. Explain the applications of heat in medical field.
- 5. Mention the types of ultrasound. Explain the biomedical applications of ultrasound.

Answer briefly:

Time: 3 Hours

- 6. Give the advantages and disadvantages of MRI scanning.
- 7. Define speed, velocity and acceleration.
- 8. Define the relative humidity and specific heat.