



[LB 824]

AUGUST 2012

Sub. Code: 4884

FIRST YEAR P.B.B.Sc (NURSING) EXAM

Paper III – BIOCHEMISTRY AND BIOPHYSICS

Q.P. Code : 684884

Time : Three hours

Maximum : 100 marks

(180 Min) Answer ALL questions in the same order.

Answer Section A and B in a SEPARATE answer book.

SECTION A

(BIOCHEMISTRY)

I. Essay:

**Pages Time Marks
(Max.) (Max.) (Max.)**

1. Explain Glycolysis and its regulation in detail.

19 33 20

II. Write Notes on:

1. Mucopolysaccharides.
2. Enzymes of diagnostic importance.
3. Rancidity.
4. Malabsorption syndrome of Lipids

3 8 5
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III. Short Answer on:

1. Normal values of blood glucose during fasting and postprandial state.
2. Alkalosis.
3. Denaturation.
4. Serum creatinine phosphokinase.
5. Nucleotides.

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SECTION B

(BIOPHYSICS)

I. Elaborate on:

1. What is Radio activity? Explain the use of radioisotopes in medicine.

19 33 20

II. Write Notes on:

1. Biological effects of light.
2. Relative humidity and specific heat.
3. Laser
4. Sphygmomanometer

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3 8 5
3 8 5
3 8 5

III. Short Answers on:

1. Third order lever with example.
2. Refraction and Reflection.
3. Osmosis.
4. Pulse Oximeter.
5. Temperature Scales

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