

Sl.No.M19396

Course Code: 2570103

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM**  
**(Deemed to be University)**

**P.B.B.Sc. (NURSING) DEGREE EXAMINATION – August 2018**  
**First Year**

**BIOCHEMISTRY AND BIOPHYSICS**

Time: Three hours

Maximum: 75 marks

**SECTION – A**

**(37 ½ Marks)**

**I. Answer the following :**  
**10)**

**(5 x 2 =**

1. Define extra cellular fluid.
2. Peroxisomes
3. Hyperkalemia
4. Transamination
5. Denaturation

**II. Write short notes for any THREE of the following:**

**(3 x 5 = 15)**

6. Factors affecting enzymes activity
7. Ketone bodies
8. Renal glycosuria
9. Essential fatty acids

**III. Write Long Essay :**

**(1 x 12 ½ = 12 ½)**

10. Describe the reactions of urea cycle.

**(OR)**

11. Write down the normal blood glucose level and describe the hormonal regulation of blood glucose level.

(p.t.o)

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**SECTION – B**

**(37 ½ Marks)**

**BIOPHYSICS**

**I. Answer the following:**

**(5 x 2 = 10)**

1. What is traction and explain it.
2. What is electrolysis?
3. Laws of conservation of energy.
4. Biological effects of light
5. Pulse oxymeter

**II. Write short notes for any THREE of the following:**

**(3 x 5 = 15)**

6. Radio isotopes used in medicine
7. Acceleration
8. States of equilibrium
9. Biological effects of electric shock

**III. Write Long Essay:**

**(1 x 12 ½ = 12 ½)**

10. Discuss the various methods of ultra sound imaging.

**(OR)**

11. Explain about basic levers and body mechanics

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