

Sl.No: M2089

Course Code: 2110203

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

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION**  
February 2021  
Second Year

**BIOCHEMISTRY AND PHARMACOLOGY**

Time: Three hours

Maximum: 100 Marks

**Answer Section A and Section B in SEPARATE Answer Book**  
**Answer ALL questions**  
**Draw suitable diagrams wherever necessary**

**BIOCHEMISTRY**

**(50 Marks)**

**I. ESSAY:** (1 x 20 = 20)

1. Name the muscular contractile elements. Discuss in detail the biochemical events occurring during muscle contraction.

**II. SHORT NOTES:** (4 x 5 = 20)

2. Type I and Type II Diabetes mellitus.
3. Hormonal control of calcium level.
4. Nitrogen balance and its significance.
5. Lipid profile.

**III. SHORT ANSWERS :** (5 x 2 = 10)

6. Name the hormones which stimulate pancreatic secretion.
7. Name the transport and storage forms of iron.
8. What is normal pCO<sub>2</sub>/pO<sub>2</sub> / Bicarbonate level in blood?
9. What is nitrogen balance? What is positive and negative nitrogen balance?
10. What is the normal level of albumin in blood?

(p.t.o)

--(2)--

## PHARMACOLOGY

(50 Marks)

### I. ESSAY:

(1 x 20 = 20)

1. Describe epilepsies including its types, and management? And a note on drug treatment of acute muscle spasms.

### II. SHORT NOTES:

(4 x 5 = 20)

2. Define and explain absorption.
3. Explain the indications of beta blockers and calcium channel blockers.
4. Explain the danger of prolonged use of steroidal agents.
5. Explain the indications and contraindications of bronchodilators.

### III. SHORT ANSWERS :

(5 x 2 = 10)

6. What do you mean by pharmacotherapeutics?
7. What are the adverse effects and contraindications of beta blockers?
8. Explain the contraindications of opioids.
9. Write down the pharmacological management of spastic disease.
10. What do you mean by prophylactic antimicrobial therapy?

\*\*\*\*\*

[Sl.No: M2089]