

[LN 1018]

OCTOBER 2018

Sub. Code: 1702

**M.Sc. CRITICAL CARE TECHNOLOGY EXAMS  
FIRST YEAR  
PAPER II – APPLIED BIOCHEMISTRY & PHARMACOLOGY  
RELATED TO CRITICAL CARE**

*Q.P. Code: 281702*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify lipids along with their functions and brief on Lipid Profile.
2. Discuss the transport of drugs across biological membranes.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Balanced Diet.
2. List the functions of calcium.
3. Define Basal Metabolic Rate and mention the factors affecting it.
4. Hyponatremia.
5. Brief about the factors affecting enzyme activity.
6. List the Mucokinetic agents with examples.
7. Give examples for bronchodilators. Mention its action and adverse effects.
8. Phenytoin - uses and dosage.
9. List the pharmacological action of Aspirin.
10. Succinyl choline - uses and mechanism of action.

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[LP 1019]

OCTOBER 2019

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**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Sources, RDA, functions and deficiency manifestations of Vitamin D.
2. Classify Antiepileptic drugs. Add a note on phenobarbitone.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Isoenzymes.
2. Basal Metabolic Rate.
3. Hyponatremia.
4. Sources, functions and deficiency manifestations of Vitamin B<sub>12</sub>.
5. Functions of proteins.
6. Ketamine.
7. Nitrous oxide.
8. Glycopyrolate- mechanism of action and its uses.
9. Cough suppressants.
10. Ipratropium.

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