



**RAN-4003**

**Second Year B.Physiotherapy Examination**

**March / April - 2019**

**Biochemistry theory and Pharmacology**

**સૂચના : / Instructions**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

☛ **Second Year B.Physiotherapy Examination**

Name of the Subject :

☛ **Biochemistry theory and Pharmacology**

Subject Code No.:

**0 0 0 0**

Seat No.:

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Student's Signature

**SECTION - I**

**Q.1.** Describe factors-affecting enzyme activity and describe different type of enzyme inhibition in detail with example. **(10 Marks)**

**OR**

**Q.1.** Describe Glycolysis Pathway with its regulation and significance. **(10 Marks)**

**Q.2. Write short notes. (Any three) (15 Marks)**

1. Beta oxidation of the fatty acid.
2. Metabolic changes in diabetes mellitus
3. Primary and secondary structure of Protein
4. Hemoglobin degradation and Describe jaundice

**Q.3. Write short notes. (Any five) (15 Marks)**

1. Explain : Mucopolysaccharides.
2. Justify: Framshift mutation is more dangerous than point mutation.
3. Justify: Ammonia is toxic to brain.
4. Justify: Folic acid, vit.B<sub>12</sub> and pyridoxine phosphate is used to reduce homocysteine level.
5. Justify: cAMP is considered as second messenger.
6. Justify: Vit.D is Pro hormone.

**SECTION - II****PHARMACOLOGY**

**Q-1** Classify cholinergic drugs. give mechanism of action of anti cholinesterase drugs & Give therapeutic uses of Anticholinergic Drugs. **10**

**OR**

**Q-1** What is DRC, half life, bioavailability & distribution. give process of absorption through mucus membrane. **10**

**Q-2 Write Any Three** **15**

1. Nikorandil
2. Organophosphorous Poisoning
3. Treatment of Myocardial Infarction
4. Macrolide Antibiotics.

**Q-3 Write In Short -Any Five** **15**

1. What are bad factors of coronary artery? Give therapeutic uses of Ntg.
  2. Outline treatment of status asthmaticus.
  3. Use of methacholine in diagnosis of pheochromocytoma.
  4. Why ciprofloxacin is preferred in biliary infection
  5. Give mechanism of action of Methotrexate
  6. What is metabolism of Adrenaline.
  7. How will you assess benefits of digitalis therapy?
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