

**RAN-2106000302020002****Second Year Bachelor of Physiotherapy****Examination September - 2025****Biochemistry and Pharmacology (New)****Time: 3 Hours]****[Total Marks: 80****સૂચના : / Instructions**

(1)

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 Bachelor of Physiotherapy

Name of the Subject :

Biochemistry and Pharmacology (New)

Subject Code No.: 2106000302020002

Seat No.:

Student's Signature

- (2) Fill up strictly the following details on your answer book.
- (3) Sketch neat and labelled diagram wherever necessary.
- (4) Figures to the right indicate full marks of the question
- (5) All questions are compulsory.

Section - A (Biochemistry)**Q. 1. Long questions (Any One)****(1×10=10)**

1. Write Haemoglobin degradation pathway. Explain Types and Causes of Jaundice. Explain how to differentiate type of Jaundice by serum and urine examination.

OR

2. Write type, difference and diagnosis diabetes mellitus. Enumerate complication of Diabetes mellitus and explain biochemical reason and effect of diabetes ketoacidosis.

Q. 2. Write short notes: (Answer any three out of four)**(3×5=15)**

1. t-RNA.
2. Lactose intolerance
3. Write and Explain Factor affecting enzyme activity with example.
4. Digestion and absorption of lipid

Q. 3. Justify following sentence. (Any 5 out of 6) (5×3=15)

1. HMP shunt pathway is important to RBCs.
2. Mutations are not always harmful.
3. Ammonia is toxic to brain.
4. Orlistat (pancreatic and hepatic lipase inhibitor) treatment is supplemented with lipid soluble vitamins
5. Aspirin cause suicide inhibition.
6. Oxidized LDL is important in pathogenesis of atherosclerosis.

Section - B (Pharmacology)

Q. 1. Essay Questions: (Answer any one) (1×10=10)

1. Describe various routes of drug administration. Explain oral and intravenous route in detail.

OR

1. Classify non-steroidal anti-inflammatory drugs. Explain in detail pharmacological actions of aspirin.

Q. 2. Write short notes: (Answer any three out of four) (3×5=15)

1. Classify drugs for peptic ulcer. Describe proton pump inhibitors in detail.
2. Classify beta blockers and mention their uses.
3. Classify antitubercular drugs. Describe in detail about isoniazid.
4. Classify antithyroid drugs. Describe uses and adverse effects of carbimazole.

Q. 3. Write short notes: (Answer any five out of six) (5×3=15)

1. Describe anti-anxiety drugs.
2. Describe drugs for Parkinson's disease.
3. Describe drugs for Bronchial asthma.
4. Describe anticoagulant drugs.
5. Describe Oral hypoglycemic drugs.
6. Describe indications of corticosteroids.