

**Second Year Bachelor of Occupational Therapy Supplementary  
Examinations April 2025  
Biochemistry and Pharmacology**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**QP CODE: 203022**

**Section A: Biochemistry**

**Max. Marks: 50**

**Elaborate On**

**(20)**

1. (a) Regulation of blood glucose level.  
(b) Classification of enzymes with examples. Add a note on isoenzymes.

**Short Notes On**

**(4x5=20)**

2. Functions and deficiency disorder of vitamin C
3. Beta oxidation of fatty acids
4. Phenyl ketonuria
5. Classification of amino acids based on nutritional requirement

**Short Answers**

**(5x2=10)**

6. Diabetic keto acidosis
7. Essential fatty acids
8. tRNA
9. Benedict's test
10. M band

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**QP CODE: 204022**

**Section B: Pharmacology**

**Max. Marks: 50**

**Essay**

**(20)**

1. Enumerate various routes of administration with one example of drug administered in each route. Discuss the merits and demerits of Intra-Venous (IV) route of administration.

**Short Notes**

**(4x5=20)**

2. Classify Anti-Epileptics. Write the mechanism of action, therapeutic uses and adverse effects of Phenytoin.
3. Enumerate drugs used in Congestive Cardiac Failure. Write the mechanism of action, therapeutic uses and adverse effects of Digoxin.
4. Write the pathophysiology of Parkinsonism. Enumerate the drugs used in treatment of Parkinsonism. Add a note on Levodopa.
5. Classify Penicillin antibiotics with examples. Write the mechanism of action, uses and adverse effects of Penicillin's.

**Short Answers**

**(5x2=10)**

6. Name four drugs used in treatment of Bronchial Asthma.
7. Name four drugs used in treatment of Hypertension.
8. Name four drugs used as General Anaesthetics.
9. Name four drugs used in treatment of Cancer.
10. Name four drugs used in treatment of Tuberculosis.

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