

II B. Pharmacy I Semester Supplementary Examinations, March- 2021
PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) Write functions of nucleus (2M)
- b) What is the biological significance of calcium? (2M)
- c) What is adrenaline? (2M)
- d) What is the biological significance of HDL? (2M)
- e) What is anabolism? (2M)
- f) What is a transferase enzyme? Give example? (2M)
- g) What are NPN metabolites? (2M)

PART -B

2. a) Discuss the chemistry of cell membrane (8M)
- b) Write in brief on active mediated transport mechanisms across cell membrane (6M)
3. a) Classify lipids with examples. Write a note on significance of arachidonic acid (9M)
- b) Write a note on chemical reactions of amino acids (5M)
4. a) Write in brief on the biochemistry and significance of HMP pathway (8M)
- b) What is glycogenesis? Discuss its biological role (6M)
5. a) Outline the biosynthesis of fatty acids. Add a note on hormonal regulation of fatty acid biosynthesis. (9M)
- b) Write in brief on hyperlipidemia (5M)
6. a) Discuss the katabolic reactions of amino acids. (9M)
- b) Outline the metabolism of tyrosine (5M)
7. a) Classify enzymes with examples. Discuss the factors influencing activity of enzyme. (9M)
- b) Write short notes on coenzymes associated with transferases (5M)