

Code No: B133101

R13

SET - 1

III B. Pharmacy I Semester Regular/Supplementary Examinations, Oct/Nov - 2017

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 **THREE** Questions from **Part-B**

PART -A

1. a) Discuss about ATP. (3M)
- b) Write the function of Mitochondria. (3M)
- c) Write a note on Energy rich Compounds. (4M)
- d) Discuss about Decarboxylation Reaction. (4M)
- e) Write a note on Hormonal regulation of Lipid Metabolism. (4M)
- f) Write about Metastasis. (4M)

PART -B

2. a) Draw a neat labelled diagram of a typical cell and mention its biochemical composition. (10M)
- b) Compare and contrast between passive diffusion and facilitated diffusion with examples. (6M)
3. a) Explain the metabolism of glycogen in detail. (8M)
- b) Explain gluconeogenesis and its significance. (8M)
4. a) Explain the de novo biosynthesis of fatty acids in detail. (10M)
- b) Discuss about Ketogenesis. (6M)
5. a) Explain regulation, energetic and metabolic disorders associated with urea cycle. (8M)
- b) Discuss about Porphyria and Jaundice. (8M)
6. a) Explain the various forms of enzyme Inhibition with examples. (9M)
- b) Differentiate competitive from non-competitive inhibition of enzymes with examples. (7M)
7. a) Write a note on Detoxification mechanisms and their biological significance. (10M)
- b) Write the Biological function of Vitamins. (8M)