

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0522]

MAY 2022

Sub. Code: 2018

(SEPTEMBER 2021 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER - II

PAPER III – BIOCHEMISTRY

Q.P. Code : 562018

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Describe the beta oxidation of fatty acids. Write the energetic for palmitic acid oxidation.
2. Describe in detail about Glycolysis with energetics.
3. Define enzyme and discuss the various types of enzyme inhibition with suitable examples.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Transcription.
2. Classification of amino acids.
3. Functions of Cyclic AMP.
4. Urea cycle.
5. Ketogenesis.
6. Genetic code.
7. Functions of Nor Adrenaline and Adrenaline.
8. Oxidative Phosphorylation.
9. Biosynthesis of Pyrimidine nucleotide.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define coenzymes and give examples.
2. Define gluconeogenesis and glycogenesis.
3. Obesity.
4. Define hyperbilirubinemia.
5. Essential Amino Acids.
6. Phenylketonuria.
7. Functions of cholesterol.
8. Hyperuricemia.
9. What is Nucleoside? Give example.
10. Transamination.
