

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

[BPHARM 0122]

**JANUARY 2022
(MARCH 2021 EXAM SESSION)**

Sub. Code: 2018

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – 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 Hexose Monophosphate shunt pathway and add a note on metabolic significance.
2. Briefly discuss the composition of DNA with a suitable diagram.
3. Discuss the reactions of gluconeogenesis.

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

1. Translation
2. Write down the reaction of β -oxidation.
3. Structure of t-RNA.
4. Classify the proteins with suitable examples.
5. Adenosine Triphosphate (ATP)
6. Clinical applications of enzymes.
7. Explain glycogenolysis.
8. Diabetes mellitus.
9. Classification and nomenclature of enzymes.

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

1. Name sulphur containing amino acids.
2. Deamination.
3. Fatty liver.
4. cAMP.
5. Oxidative phosphorylation.
6. Alkaptonuria.
7. Gout.
8. Ketosis.
9. What is Nucleotide? Give example.
10. Role of Carnitine.
