

QP CODE: 103326

Reg. No:

**First Year Pharm D Degree Regular/Supplementary Examinations
February 2021**

Medicinal Biochemistry

Time: 3 Hours

Total Marks: 70

- *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*

Essays

(3x10=30)

1. Enlist the phases and explain the reactions of hexose monophosphate (HMP) shunt and add a note on the importance of NADPH.
2. Explain protein synthesis. Write a note on metabolism of purine and pyrimidine nucleotides
3. Explain in detail the synthesis, utilization and significance of β -hydroxy butyrate.

Short notes:

(8x5=40)

4. Phenylketonuria and albinism.
5. Coenzymes and diagnostic enzymes.
6. Structure and functions of cholesterol.
7. Tests for tubular functions of kidney.
8. Advantages and disadvantages of Immunochemical techniques.
9. Schematically represent water turnover and explain regulation of water balance in normal adult.
10. Liver function tests for metabolic functions and detoxification functions of liver.
11. Mitochondria and components of electron transport chain.
