

QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations
January 2020**

**Biochemistry
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Describe about HMP shunt. Add a note on about its significance.
2. Discuss about β -oxidation of fatty acids. Calculate the net ATP in this process by taking palmitic acid as an example.

Short Notes

(7x5=35)

3. Glycogenesis
4. Electron transport chain.
5. Oxidative phosphorylation
6. Pyrimidine biosynthesis.
7. Explain the conversion of cholesterol into bile acids.
8. Biological significance of cholesterol.
9. Catabolism of tyrosine and its metabolic disorders

Answer Briefly

(10x2=20)

10. Fatty liver and obesity
11. Clinical implications of hypercholesterolemia
12. Essential amino acids
13. Gout
14. Atherosclerosis
15. Diabetes mellitus
16. Significance of 5-HT
17. Function of RNA
18. Disorders associated with urea cycle
19. Co-enzymes
