

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JANUARY 2020
Second Semester**

BIOCHEMISTRY

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain the metabolic pathway of glycolysis and its significance.
2. Discuss about the mechanism of enzyme action in detail.
3. Define and classify amino acids with examples and write the applications of amino acid.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Electron transport chain
5. Polysaccharides
6. Concept of free energy
7. Phenylketonuria.
8. Catabolism of purine nucleotides
9. Fatty liver and obesity
10. Glycogen storage disease
11. Coenzymes
12. Genetic code.

III. Write short notes on : (10 x 2 = 20)

13. Citric acid cycle
14. ATP
15. Beta oxidation of saturated fatty acid
16. Allosteric inhibition
17. Alkaptonuria
18. Transcription
19. Glycogenesis
20. Essential amino acids
21. Ketone bodies
22. Isoenzymes.
