

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

M.D. DEGREE EXAMINATION - April 2019

BIOCHEMISTRY

**PAPER II : ENZYMES, INTERMEDIARY METABOLISM AND
NUTRITION**

Time: Three hours

Maximum: 100 marks

Answer ALL questions

SECTION - A

I. Essay: (1 x 20 = 20)

1. Write in detail about glucogen metabolism and its regulation. Add a note on Glycogen storage disorders.

II. Write short notes on: (5 x 6 = 30)

2. LDL metabolism and its role in atherosclerosis.
3. Dietary fiber
4. Adipose tissue metabolism
5. Cytochrome P₄₅₀
6. Salvage pathway of purines and pyrimidines.

SECTION - B

I. Essay: (1 x 20 = 20)

7. Write in detail about the catabolism of methionine. Add a note on the disorders associated with it.

II. Write short notes on: (5 x 6 = 30)

8. Oxidative phosphorylation.
9. Calcium homeostasis.
10. Antioxidant Vitamins
11. Regulation of enzyme activity.
12. Bile pigments.