Sl.No.: M19012 Sub. Code: 1010125

# VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University)

### MBBS DEGREE EXAMINATION – August 2018 FIRST YEAR

#### **BIOCHEMISTRY – PAPER I**

Time: Three hours Maximum: 80 marks

## Answer ALL questions Draw diagrams wherever necessary

#### SECTION - A

I. Write essay on :  $(1 \times 10 = 10)$ 

1. Describe in detail the different types of enzyme inhibition with examples.

## II. Write short notes on: $(4 \times 5 = 20)$

- 2. Metabolism of Galactose. Add a note on Galactosemia.
- 3. Fate of glucose 6 phosphate in the body
- 4. Biochemical functions of riboflavin
- 5. Folate trap.

III. Answer briefly:  $(5 \times 2 = 10)$ 

- 6. What are lipotrophic factors? Give two examples.
- 7. What is electrophoresis and its principle?
- 8. Name antioxidant vitamins and its functions
- 9. Functions of Albumin
- 10. What is chemiosmotic theory of oxidative phosphorylation.

#### SECTION - B

I. Write essay on :  $(1 \times 10 = 10)$ 

11. Describe in detail the dietary source, recommended dietary allowance and biochemical functions of Vitamin A. Add a note on deficiency manifestations.

#### II. Write short notes on : $(4 \times 5 = 20)$

- 12. Metabolism of ketone bodies
- 13. HDL metabolism
- 14. Laboratory investigations of different types of jaundice
- 15. Vitamin K functions

#### III. Answer briefly: $(5 \times 2 = 10)$

- 16. What are essential amino acids?
- 17. What are biochemical alterations in Marasmus?
- 18. What are enzyme markers for Mitochondria, Golgi bodies, cytoplasm and lysosomes?
- 19. Name four Mucopolysaccharides.
- 20. What are the products formed from cholesterol.

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