Sl.No. M21231 Course Code: 1160304

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

M.D. DEGREE EXAMINATION - April 2019

BIOCHEMISTRY

PAPER IV: RECENT ADVANCES IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Time: Three hours

Maximum: 100 marks

Answer ALL questions

SECTION - A

I. Essay: $(1 \times 20 = 20)$

1. Discuss in detail about transcription and its regulation. Add a note on post transcriptional modification.

II. Write short notes on:

 $(5 \times 6 = 30)$

- 2. DNA repair mechanisms
- 3. Micro array
- 4. Oncogenes
- 5. Free radicals
- 6. Omega fatty acids.

SECTION - B

I. Essay: $(1 \times 20 = 20)$

7. Write in detail about various types of tumour markers.

II. Write short notes on:

 $(5 \times 6 = 30)$

- 8. Cell cycle and its regulation.
- 9. Antibody diversity.
- 10. Polyamines.
- 11. Applications of stem cells in clinical medicine.
- 12. Lysosomal storage disorders.
