

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

M.D. DEGREE EXAMINATION - May 2019

PHARMACOLOGY

PAPER I : GENERAL PHARMACOLOGY AND ALLIED SCIENCES

Time: Three hours

Maximum: 100 marks

Answer ALL questions

SECTION - A

I. Essay: **(1 x 20 = 20)**

1. Discuss the special pharmacokinetic factors and pharmacodynamic differences of perinatal and paediatric pharmacology.

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

2. Pharmacogenetics
3. Bioavailability studies
4. Chronopharmacology
5. Global pharmacovigilance
6. Urinary pH and drug poisoning.

SECTION - B

I. Essay: **(1 x 20 = 20)**

7. Discuss the pathophysiology of various types of shock and outline their management.

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

8. Mention the drug delivery in dermatological diseases.
9. Protease inhibitors in HIV infections.
10. Radioactive isotopes
11. G-protein coupled receptors.
12. Role of nanoparticles in pharmacology.
