



**RAE-9043**

Seat No. \_\_\_\_\_

**M. D. (Branch - IV) Examination**

**March / April - 2019**

**Pharmacology : Paper - I**

*(Basic Science)*

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) All questions are compulsory.  
(2) Neat and precise answers are expected.  
(3) Explain by figures wherever applicable.

- 1** Describe modes of permeation and transport. Write in detail about first pass metabolism and enterohepatic circulation. **30**
- 2** Write in detail about : **30**  
(a) Public policy consideration and criticisms of pharmaceutical industry.  
(b) Discuss physiology and pharmacology of dopaminergic receptors.
- 3** Short notes : **40**  
(a) Sir Henry Hallett Dale  
(b) Drug schedules  
(c) Environmental toxicology  
(d) Enzyme inhibition.