



**J-9043**

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

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

**September / October - 2019**

**Pharmacology : Paper-I**

*(Basic Science)*

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

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

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|----------|---|-----------|
| <b>1</b> | Describe physiology of neuro-muscular junction and its pharmacological modulation.  | <b>30</b> |
| <b>2</b> | Write in detail about :<br>(a) Pharmacovigilance<br>(b) Pharmacogenetics  | <b>30</b> |
| <b>3</b> | Short notes :<br>(a) Saturation kinetics<br>(b) Role of placebo in clinical trials and its ethical aspects<br>(c) Influence of age on drug action<br>(d) Chronopharmacology | <b>40</b> |