

**KARNAFULI-I (CBCS) : WINTER - 2015**  
**SUBJECT : ADVANCED PHARMACOLOGY-I**

Day : Friday  
Date : 08-01-2016

Time : 10:00AM TO 1:00P.M.  
Max. Marks : 60.

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**N.B.:**

- 1) Attempt any **THREE** questions from each section.
  - 2) Both the sections should be written in **SEPARATE** answer books.
  - 3) Figures to the **RIGHT** indicate full marks.
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**SECTION-I**

- Q.1** Describe the general organization of screening. (10)
- Q.2** What is high throughput screening (HTS)? Explain the principle and applications of HTS in drug research. (10)
- Q.3** Describe the screening of antidepressant drugs. (10)
- Q.4** Write notes on any **TWO** of the following: (10)
- a) Methods of anti-inflammatory activity
  - b) Methods to induce hypertension in animals
  - c) Microarrays.

**SECTION-II**

- Q.5** Explain in detail the role of transgenic animals in experimental pharmacology. (10)
- Q.6** Describe in detail the screening for diuretics. (10)
- Q.7** Describe in detail screening of anti-adrenergic drugs. (10)
- Q.8** Write notes on any **TWO** of the following: (10)
- a) Screening of antithyroid drugs
  - b) Limitations of *in vitro* testing of drugs
  - c) Screening of muscle relaxants.

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