

**Total No. of Pages : 1**

**Total No. of Questions : 06**

**M. Pharmacy (Pharmacology) (Sem.-1<sup>st</sup>)**

## DRUG EVALUATION AND ADVANCED PHARMACOLOGICAL TECHNIQUES

**Subject Code : PHM-515**

Paper ID : [E0209]

**Time : 3 Hrs.**

**Max. Marks : 80**

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carry SIXTEEN marks.

1. (a) Classify various animal models available for pre-clinical screening of potential anti-arrhythmic agents and give an account of arrhythmia production by electrical stimulation.  
(b) Discuss about the role of institutional animal ethics committee in the regulation of experiments on animals. (10 + 6)
2. (a) What is proliferative inflammation? How it can be induced in animals? Explain critically any two experimental models of proliferative inflammation.  
(b) Give a critical account of genetically diabetic animals. (10 + 6)
3. Write short notes on following :  
(a) Tail suspension test.  
(b) Animal model of anticipatory anxiety.  
(c) Gold-blatt technique to induce hypertension.  
(d) Modern approaches to drug discovery. (4+4+4+4)
4. Discuss battery of tests to evaluate potential antiepileptic activity of an entity. (16)
5. (a) Write a note on stress induced gastric ulcer.  
(b) Discuss critically about the utility of "Morris water-maze" in the evaluation of a molecule affecting memory. (8 + 8)
6. (a) Write a note on animal models of Alzheimer's disease.  
(b) Add a note on radioligand binding assays. (8 + 8)

