M. Pharm. (Sem. I) (Pharmacology) (CBCS) Examination

December - 2017

MPL - 103 T : Pharmacological & Toxicological Screening Methods - I

Time : **3** Hours]   [Total Marks : **75**

Instructions : (1) Figures to the right indicates full marks.

(2) Draw neat and clean diagram wherever required.

1   Answer the following questions :   **10×2=20**

(a) Define : Bioassay

(b) Write the biological name of guinea pig and mice.

(c) Give name of the chemicals used to induce Parkinson's disease in animals.

(d) Write the principle of elevated plus maze.

(e) Write animal model to differentiate centrally and peripheral acting analgesics.

(f) Give the principle of pylorus ligation model.

(g) Write the principle of streptozotocin-induced diabetes in animals.

(h) Explain principle of triton-induced dyslipidemia.

(i) Name various immunoassay methods.

(j) Briefly discuss compound 48/80.

2   Answer any **two** out of the following :   **2×10=20**

(a) Explain any three animal model of hypertension.

(b) Discuss in detail about animal models to evaluate anti-inflammatory activity.

(c) Write a detailed note on various animal models to evaluate antidepressant activity.

3 Answer any **seven** out of the following : 7×5=35

(a) Explain principle and various methods of bioassay.

(b) Explain various methods of euthanasia in animals.

(c) Discuss any two animal models to evaluate antiepileptic activity.

(d) Write in detail about animal models used to access anti-psychotic activity.

(e) Give detailed note on animal models used to screen anti-ulcer activity.

(f) Explain any two animal models used to evaluate hepatoprotective activity.

(g) Discuss various animal models to induce hypertension in animals.

(h) Explain any two immuno assay methods in detail.

(i) Write the principle and procedure to conduct bioassay of digoxin.

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