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BP 810 ET

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2022

B.Pharm. 8th Semester (Regular) End-Term Examination

EXPERIMENTAL PHARMACOLOGY - THEORY

(New Regulation)

(wef 2017-18)

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks
for the questions.

1. Answer *all* the questions : (20 × 1 = 20)
- (i) Acute toxicity study is done for
 - (a) 14 days
 - (b) 28 days
 - (c) 90 days or above
 - (d) None of the above
 - (ii) The screening of drugs in human volunteers is known as
 - (a) Preclinical Screening
 - (b) Clinical Screening
 - (c) Animal studies
 - (d) None of the above
 - (iii) The role of CPCSEA is
 - (a) To monitor animal experiments
 - (b) To monitor Institute
 - (c) To monitor Instruments
 - (d) None of the above
 - (iv) In antiepileptic screening the instrument which is used to induce pain in animal is
 - (a) Electroconvulsometer
 - (b) Electrode
 - (c) Analgesiometer (Hot plate method)
 - (d) None of the above

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- (v) The apparatus by which diuretic activity is screened is
- (a) Metabolic cage (b) Actophotometer
(c) Microtome (d) None of the above
- (vi) The average weight of mouse is
- (a) 150 – 200g (b) 2 – 3 kg
(c) 40 – 60 g (d) 20 – 30 g
- (vii) The instrument which is used to screen antipsychotic activity is
- (a) Cook's Pole climbing apparatus
(b) Analgesiometer
(c) Actophotometer
(d) None of the above
- (viii) The instrument which is used to screen anti-inflammatory property is
- (a) Plethysmometer (b) Analgesiometer
(c) Rotarod (d) None of the above
- (ix) The following drug blocks both conditional response (CR) and Unconditional response (UR)
- (a) Antidiabetic drug screening
(b) Sedative and Hypnotics drugs
(c) Antihistaminic drug screening
(d) Antiulcer drug screening
- (x) The chemical which is used to induce Diabetes in animal is
- (a) Streptozotocin (b) Catageenan
(c) Acetic acid (d) None of the above
- (xi) Writhing response in mice means
- (a) Constriction of abdomen
(b) Twining of Trunk
(c) Extension of hind limbs
(d) All of the above

(xii) The following drugs decrease the pupillary size

- (a) Ephedrine
- (b) Atropine
- (c) Cocaine
- (d) Pilocarpine

(xiii) Glucometer is used to check

- (a) Blood sugar
- (b) Body temperature
- (c) Oxygen
- (d) None of the above

(xiv) The following is an example of anti-coagulant

- (a) Fibrinogen
- (b) Vitamin K
- (c) Heparin
- (d) None of the above

(xv) Morris water Maze is used to screen

- (a) Antidiabetic activity
- (b) Anti-Alzheimer agents
- (c) Anti-Parkinson agents
- (d) None of the above

(xiv) The deep burial method of sacrificing animal

- (a) Euthanasia
- (b) Anesthesia
- (c) Analgesia
- (d) None of the above

(xv) When Ephedrine is applied in rabbit eye

- (a) Corneal reflex is absent
- (b) Corneal reflex is present
- (c) Corneal and light reflex is present
- (d) None of the above

(xviii) The water wheel model is used to screen

- (a) Antidepressant agent
- (b) Antidiabetic agent
- (c) Analgesic drugs
- (d) None of the above

(xix) Mydriasis in pupil of eye means

- (a) Pupil size is increased (b) Pupil size is decreased
(c) Normal pupil size (d) None of the above

(xx) Cat spleen method is for screening of

- (a) Sympatholytic drug (b) Sympathomimetic drug
(c) Muscle relaxant (d) None of the above

2. Answer any *seven* questions : " (7 × 5 = 35)

- (a) Write a brief note on OECD guidelines for maintenance, breeding and conduct of experiments in animals. (5)
(b) Write a brief note on Transgenic animals. (5)
(c) Write a brief note on different Techniques of blood collection. (5)
(d) Write a brief note on Euthanasia. (5)
(e) Write a brief note on preclinical screening models of CNS stimulant activity. (5)
(f) Write briefly on preclinical screening models of Diuretics. (5)
(g) Write a brief note on selection of Research topic and review of literature. (5)
(h) Write briefly on preclinical screening models of sedative and hypnotics. (5)
(i) Write a brief note on selection, calculation and conversions doses for laboratory animals. (5)

3. Answer any *two* questions : (2 × 10 = 20)

- (a) Differentiate Type I and Type II diabetes mellitus. Write elaborately about the preclinical screening models for antidiabetic drugs. (4 + 6)
(b) Write elaborately on antihypertensive and antiulcer drugs. (5 + 5)
(c) Short notes : (2 × 5 = 10)
(i) Write briefly on one way ANOVA
(ii) Screening of general anaesthetics.