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Girijananda Chowdhury University
Hatkhowapara, Azara, Ghy-17

BP 810 ET

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2023

B.Pharm. 8th Semester End-Term Examination

EXPERIMENTAL PHARMACOLOGY THEORY

(New Regulation w.e.f 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) Chronic toxicity study is done for
- (a) 14 days (b) 28 days
- (c) 10 days or above (d) None of the above
- (ii) The screening of drugs in animals is known as
- (a) Preclinical screening (b) Clinical screening
- (c) Animal studies (d) None of the above
- (iii) The role of CCSEA 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) Electroconvulsio meter
- (b) Electrode
- (c) Analgesiometer (Hot plate method)
- (d) None of the above
- (v) The instrument by which CNS depressant activity is screened is
- (a) Metabolic cage (b) Actophotometer
- (c) Microtome (d) None of the above

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- (vi) The average weight of rabbit is
- (a) 150-200 g (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 apparatus which is used to screen Diuretic property is
- (a) Plethysmometer (b) Analgesiometer
(c) Metabolic cage (d) None of the above
- (ix) Pylorus ligation is a method of
- (a) Antidiabetic drug screening (b) Anticancer drug screening
(c) Antihistaminic drug screening (d) Antiulcer drug screening
- (x) The chemical which is used to induce pain in animal is
- (a) Streptozotocin (b) Carageenan
(c) Acetic acid (d) None of the above
- (xi) Writhing response in mice mean
- (a) Constriction of abdomen (b) Twisting of Trunk
(c) Extension of hind limbs (d) All of the above
- (xii) The following drugs increase the pupillary size except
- (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 coagulant
- (a) Fibrinogen (b) Vitamin K
(c) Heparin (d) None of the above
- (xv) The following is a local anesthetic
- (a) Lignocaine (b) Albendazole
(c) Warfarin (d) None of the above

- (xvi) The method of sacrificing animal is known as
- (a) Euthanasia (b) Anesthesia
(c) Analgesia (d) None of the above

(xvii) When local anesthetic 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

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(xviii) The instrument which is used to screen antiasthmatic property is

- (a) Histamine Chamber (b) Rota rod apparatus
(c) Acto photometer (d) None of the above

(xix) Myosis in 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 Transgenic animals. (5)
(b) Write a brief note on laboratory animals. (5)
(c) Write a brief note on different route of drug administration in laboratory animals. (5)
(d) Write a brief note on preclinical screening models of CNS stimulant activity. (5)
(e) What are antiepileptics? Write a brief note on preclinical screening models of antiepileptic drugs. (1+4)
(f) Write a brief note on preclinical screening models of antipsychotic agent. (5)
(g) What are muscle relaxants? Write a brief note on preclinical screening of muscle relaxants. (1+4)
(h) Write briefly about the preclinical screening models for diuretic activity. (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) Write elaborately on screening of analgesic drugs with respect to thermal, chemical and physical induction of pain in animals. (10)

(b) Write elaborately on CCSEA Guidelines for animal house and its maintenance. (10)

(c) Short notes: (2 × 5 = 10)

(i) Write briefly on research hypothesis. (5)

(ii) Screening of antidyslipidemic agents. (5)