

Total No. of printed pages = 4

BP 810 ET

Roll No. of candidate

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2021

B.Pharm. 8th Semester End-Term Examination

EXPERIMENTAL PHARMACOLOGY

(New Regulation)

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 (d) None of the above
- (ii) The animal house temperature should be maintained between
- (a) 20-22°C (b) 14-20°C
- (c) 18-29°C (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 anti-epileptic screening the instrument which is used to induce electric shock is
- (a) Electroconvulsometer (b) Electrode
- (c) Analgesiometer (d) None of the above
- (v) The instrument by which diuretic activity is screened
- (a) Metabolic cage (b) Actophotometer
- (c) Microtome (d) None of the above

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- (vi) The average weight of mice is
- (a) 150-200 g (b) 2-3 kg
(c) 40-60 g (d) 20-30 g
- (vii) The scientific study of adverse effects that occur in living organisms due to chemicals is
- (a) Pharmacology (b) Pathology
(c) Toxicology (d) None of the above
- (viii) The instrument which is used to screen anti-inflammatory activity is
- (a) Plethysmometer (b) Analgesiometer
(c) Rotarod (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 diabetes is
- (a) Streptozotocin (b) Carageenan
(c) phenyltetrazole (d) None of the above
- (xi) In hot plate method of analgesic screening the temperature of the hot plate is maintained at
- (a) 55-56°C (b) 80-82°C
(c) 10-12°C (d) 20-22°C
- (xii) In antipyretic study _____ is used to induce fever in animal
- (a) Water (b) Brewers yeast
(c) Both (d) None of the above
- (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 anticoagulant
- (a) Fibrinogen (b) Vitamin K
(c) Heparin (d) None of the above
- (xv) The following is a local anesthetic
- (a) Lidocaine (b) Albendazole
(c) Warfarin (d) None of the above

- (xvi) Tail cuff method is for
- Antidiabetic drug screening
 - Antihistaminic drug screening
 - Antihypertensive drug screening
 - None of the above
- (xvii) Acute systemic anaphylaxis in rats is a method of
- Antihistaminic drug screening
 - Anticancer drug screening
 - Antiulcer drug screening
 - None of the above
- (xviii) The instrument which is used to screen muscle relaxant property is
- Pole climbing apparatus
 - Rota rod apparatus
 - Acto photometer
 - None of the above
- (xix) Mydriasis in eye means
- Pupil size is increased
 - Pupil size is decreased
 - Normal pupil size
 - None of the above
- (xx) Cat spleen method is for screening of
- Sympatholytic drug
 - Sympathomimetic drug
 - Muscle relaxant
 - None of the above

2. Answer any seven questions: (5×7=35)
- Write a brief note on OECD guidelines for toxicity studies. (5)
 - Write a brief note on transgenic animals. (5)
 - Write a brief note on different species and strains of animals. (5)
 - Write a brief note on preclinical screening models of muscle relaxants. (5)
 - What are diuretics? Write a brief note on preclinical screening models of Diuretics. (1+4)
 - Write a brief note on preclinical screening models of anti-epileptic drugs. (5)
 - What are anti-inflammatory drugs? Write a brief note on preclinical screening models of anti-inflammatory drugs. (1+4)
 - What are antiulcer drugs? Write briefly about the preclinical screening models for antiulcer drugs. (1+4)
 - What are antihypertensive drugs? Write briefly about the preclinical screening models for antihypertensive drugs. (1+4)

3. Answer any two questions: (10 × 2 = 20)
- (a) Write elaborately on CPCSEA guidelines for maintenance, breeding and conduct of experiments on laboratory animals. (10)
 - (b) What is Diabetes mellitus. Differentiate between Type I and Type II diabetes mellitus. Describe elaborately about different preclinical screening models of antidiabetic drugs. (1+2+7)
 - (c)
 - (i) Write briefly on One way ANOVA. (5)
 - (ii) Anticancer drug screening. (5)
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