



Sessional II (Even) Semester Examination May 2025

Roll no.....

Name of the Course and semester: B.Pharm

Semester: VIII

Name of the Paper: Experimental Pharmacology

Paper Code: BP-810ET

Time: 1.5 hour

Maximum Marks: 30

Note:

- (i) This question paper contains three sections.
- (ii) All the sections are compulsory.

SECTION-A

Multiple choice questions:

10 X 1 = 10 Marks

1	Which drug is used as a standard in the screening of sympathomimetic agents? A) Atropine B) Epinephrine C) Acetylcholine D) Propranolol	(CO3)
2	To screen skeletal muscle relaxant activity, which method is commonly used? A) Rotarod test B) Hot plate test C) Tail flick test D) Elevated plus maze	(CO3)
3	In the rabbit eye model, miosis is caused by: A) Atropine B) Adrenaline C) Pilocarpine D) Ephedrine	(CO3)
4	Which agent is used to screen parasympatholytic activity? A) Pilocarpine B) Neostigmine C) Atropine D) Physostigmine	(CO3)
5	For local anaesthetic activity, which test is used in guinea pigs? A) Rotarod B) Tail immersion C) Wheal formation test D) Corneal reflex test	(CO3)



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6	The tail-cuff method in rodents is primarily used to measure: A) Blood glucose levels B) Blood pressure C) Heart rate variability D) Serum cholesterol levels	(CO4)
7	In the evaluation of anti-diabetic drugs, which agent is commonly used to induce diabetes in experimental animals? A) Isoproterenol B) Streptozotocin C) Reserpine D) Acetylcholine	(CO4)
8	In anti-hyperlipidemic screening, which diet is used to induce hyperlipidemia? A) High-fat diet B) Low-protein diet C) High-carbohydrate diet D) Ketogenic diet	(CO4)
9	The parameter most commonly measured in diuretic screening is: A) Blood pressure B) Urine volume C) Heart rate D) Blood glucose	(CO4)
10	Which of the following is commonly used as an in vivo model for screening anticancer activity? A) Dalton's ascitic lymphoma in mice B) Streptozotocin-induced diabetic rats C) Histamine-induced bronchospasm in guinea pigs D) Rotarod test in rats	(CO4)

SECTION-B

Short Questions: Attempt any TWO questions.

2x5 = 10 Marks

1	Describe any one preclinical animal model used for evaluating skeletal muscle relaxant activity.	CO3
2	Explain the procedure and significance of any one animal model used to assess local anesthetic activity.	CO3
3	Discuss the methodology and rationale behind any one preclinical animal model for anti-ulcer activity.	CO4



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SECTION-C

Long questions: Attempt any ONE question 1x10 = 10 Marks

1	Describe in detail the experimental models used to study the pharmacological effects of drugs on the eye. Include the procedure, parameters observed, and interpretation.	CO3
2	Elaborate on different animal models used for screening anti-asthmatic drugs. Discuss their mechanism, procedures, and outcomes evaluated.	CO4