

PHARMACOLOGY AND TOXICOLOGY PRACTICAL – 4200P3

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ANSWER THE FOLLOWING QUESTIONS

SUBJECT: PHARMACOLOGY & TOXICOLOGY

SUBJECT CODE: 4200P3

1. Define the following terms:

- A. Pharmacology B. Bioavailability C. Toxic effects D. Side effects
E. Pharmacokinetic F. Pharmacodynamics G. Posology H. Metabolism

2. Explain the objectives of experimental pharmacology.

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3. Write the biological name of following animals.

A. Frog:

D. Guinea Pig:

B. Mice:

E. Hamster:

C. Rat:

F. Rabbit:

4. Explain the experimental uses of rat in pharmacology.

5. Enlist the blood collection techniques from experimental animals.

6. Write injection sites for various experimental animals.

7. Enlist the types of lever uses in isolated tissue experiments.

8. Differentiate between isotonic, isometric and auxotonic contraction.

9. Enlist the ingredients of tyrode solution with their purpose.

10. Write principle of dose response curve of Ach using rat ileum.

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11. Write the standard physiological conditions of dose response curve of Ach using rat ileum.

12. Draw the standard dosing graph pattern of dose response curve of Ach using rat ileum.

13. Write the standard observation table pattern for dose response curve of Ach using rat ileum.

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14. Write the effects of atropine and lignocaine on rabbit eye regarding pupil size, light reflex and touch reflex.

15. Explain the mechanism of action of digitalis on frog heart.

16. Differentiate between hypnotics and sedatives.

17. Classify the types of seizure in epilepsy.

18. Explain the sham test and main test of rabbit pyrogen experiments.

19. Write the symptoms of compulsive behavior in animal induced by apomorphine.

20. What is taming effects in rat ?

21. Enlist the screening methods for narcotic and non-narcotic drugs to find analgesic activities of drug in experimental animals.

22. Write the symptoms of writing in mice induced by chemical methods.

23. What is catatonia ?