Total No. of printed pages = 2

MPL 102 T

Roll No. of candidate

2022

M.Pharm. 1st Semester (End-Term) Examination

Pharmacology

ADVANCED PHARMACOLOGY — I

(New Regulation w.e.f. 2017-18)

Full Marks – 75   Time – Three hours

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

A.   Answer *all* :   (10 × 2 = 20)

1.   Write down the pharmacodynamics of steroidal drugs.

2.   Why Paracetamol in high dose cause liver toxicity?

3.   How typical and atypical antipsychotic drugs are different?

4.   Why GTN is used in Angina Pectoris?

5.   Write a note on calcium channel blocker.

6.   Write down the mechanism and toxicity of Ethamcylate.

7.   What is the mechanism action of Steptokinase? Where it is used?

8.   Differentiate the mechanism of action of Barbiturates and Benzodiazepine.

9.   Why osmotic diuretics used in cerebral inflammation and Glaucoma.

10.   What are the pre-anesthetic medications?

[Turn over

B.   Answer any *seven*. $(7 \times 5 = 35)$

11. Explain in details about the role of Noradrenaline, Dopamine and Serotonin in Psychosis and Depresion.

12. What are the different types of biotransformations? Explain wih examples.

13. Explain with examples about Non adrenergic non cholinergic transmission (NANC) and Cotransmission.

14. Describe in details about the mechanism of action of Local and General Anaesthetics.

15. Make a brief description of the etiology of neuro degenaraive disorders and how drugs restore the conditions.

16. Explain in details about the mechanism of action of narcotic analgesics. Describe their toxicology.

17. Classify diuretics on the basis of their mechanism of action. Give examples of each one.

18. What are the different types of opioid Autocoids? Explain their pharmacology with examples.

19. What are the COX-1 and COX-2 inhibitors? Why COX-2 inhibitors are banned?

C.   Answer any *two*. $(2 \times 10 = 20)$

20. Write in details about the different families of receptors bind with drugs with examples and mechanism of action? Explain the quantization of drug receptors interaction and their elicited effects. $(7+3=10)$

21. Describe in details about the Concepts of linear and non-linear compartment models of pharmacokinetics with examples. Write an overview on the Significance of Protein binding. $(7+3=10)$

22. Write a brief note on the following topic

     (a)   Neurohumoral transmission in autonomic nervous system.

     (b)   What are the different types of Autocoids? Classify them with examples and in brief describe their pharmacology. $(5+5=10)$

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