

Adichunchanagiri University

Model QP :PART- II: PHARMACOLOGY SPECIALISATION

60M

SEC- A

Note: Answer any 20 questions. Each question carries ONE mark

20x1=20

1. Define volume of distribution? Write its significance
2. Write the meaning of i). Straub's tail and ii) Stereotype
3. What is tachyphylaxis give two drug examples
4. What is loading dose and maintenance dose?
5. Why NSAIDs are contraindicated in asthma?
6. Single line mechanism of action of Statins.
7. Enlist the histamine evoked triple response
8. What is Cheyne-Stokes Breathing; which drug produces this effect.
9. What is righting reflex and when it is performed?
10. Suggest safe antipyretic drug during jaundice/hepatic disease.
11. What is first pass effect? Give examples.
12. Osmotic diuretics are contra-indicated in head injury-give reason.
13. One line mechanism behind adrenaline induced muscular fasciculation.
14. Mechanism involved in adrenaline and atropine induced mydriasis
15. What is Dale's Vasomotor reversal? Give example.
16. Define the terms and give one drug example for : i) Cyclopegia and ii) Photo phobia
17. Difference between open angle and acute angle glaucoma
18. Meaning of Paroxysmal depolarization shift in epilepsy.
19. What is hypodermoclysis? When it is used.
20. Write one line mechanism of action of digoxin.
21. Name the specific antidote for morphine poisoning.
22. Specify the voltage to be used for mice and rats in electroconvulsimeter
23. Justify the combination of levodopa and carbidopa
24. Name the locations of nicotinic receptor in the body and their effects.
25. Define : i). Thrombophlebitis and ii) Aplasia
26. Why acetylcholine has no therapeutic usefulness?
27. Mechanism of action of Quinolones
28. Major adverse effects of anti cancer drugs.
29. Suggest one safe anti emetic drug during pregnancy.
30. Differentiate between cardiac arrhythmia and dysrhythmia.

SEC- B

Note: Answer any 10 questions. Each question carries TWO marks

10x2=20

1. Name two models for evaluation of anti-anginal drugs.
2. A brief note on pharmacogenetics with examples
3. Comment on therapeutic implications of Neuropeptide Y
4. Genetic disorders of cardiovascular diseases
5. Illustrate antioxidant defense mechanisms
6. Enlist the arachidonic acid metabolites and their role in inflammation
7. Applications of recombinant DNA technology
8. Therapeutic strength of immunotoxins
9. Comment on Gene therapy of AIDS
10. Analysis of DNA sequences
11. Southern blotting
12. Tissue necrosis factor (TNF)
13. Explain the drug-receptor interaction with illustrations
14. Write the general pharmacology of peptide and protein drugs
15. Comment on therapeutic potential of stem cells

SEC- C

Note: Answer any 5 questions. Each question carries FOUR marks

5x4=20

1. Note on propagation and preservation of cell lines
2. Explain the basic principle, methods and application of ELISA test
3. Discuss about the acute, sub acute and chronic toxicity evaluation as per OECD guidelines.
4. Discuss about basic concepts and applications of bio-informatics and proteomics in drug discovery
5. Biochemical estimation for free radical scavengers
6. Explain in detail about programmed cell death (Apoptosis)
7. Add an elaborative note on Polymerase chain reaction (PCR)
8. Explain about the biology and genesis of cystic fibrosis
9. Discuss about the biochemical mechanisms of acute and chronic inflammation
10. Biology of multi drug resistance (MDR) proteins