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Rajiv Gandhi University of Health Sciences, Karnataka III Year B.Pharm Degree Examination - NOV - 2017

Time: Three Hours

Max. Marks: 80 Marks

 $2 \times 10 = 20$ Marks

 $8 \times 5 = 40$ Marks

MEDICINAL CHEMISTRY - I (Revised Scheme - 2)

Q.P. CODE: 1961

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

- 1. Classify sympathomimetic agents giving the structure of one under each class. Explain the biosynthesis and pharmacological activities of catacholamines.
- 2. Define and classify anticonvulsants giving the structure of one drug under class. Explain the mechanism of anticonvulsant action. Outline the synthesis of clonazepam.
- 3. What are NSAIDs? Give the chemical classification with examples drawing one structure of drug from each class. Write the synthesis of piroxicam and mefenamic acid.

SHORT ESSAYS (Answer any Eight)

- 4. Explain the importance of partition coefficient and optical isomerism in biological activity.
- 5. Write a note on biosynthesis and therapeutic applications of eicosanoids.
- 6. Explain the structural elucidation of ephedrine.
- 7. Write a note on narcotic antagonists.
- 8. Classify general anaesthetic agents with examples. Write the synthesis of methohexital.
- 9. Classify H₁-antagonists with examples. Write the synthesis of diphenhydramine.
- 10. Explain with suitable examples, the factors affecting drug metabolism.
- 11. Classify synthetic cholinergic blocking agents with examples. Outline the synthesis of tropicamide.
- 12. Outline the synthesis of acetaminophen and phenyl butazone.
- 13. Give the SAR of barbiturates. Outline the synthesis of Phenobarbital sodium.

SHORT ANSWERS

- 10 x 2 = 20 Marks
- 14. Write the structures of any two H_2 receptor antagonists.
- 15. List out important local anaesthetics.
- 16. Write the structures of any two cholinesterase inhibitors.
- 17. List out two antispastic agents.
- 18. What are prostaglandins? Give an example.
- 19. Synthesis of meprobomate
- 20. Structure and use of phenylephrine
- 21. Synthesis of dicyclomine
- 22. Structure and use of lidocaine
- 23. Synthesis of meclizine

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