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Question Paper

Exam Date & Time: 28 Mar 2021 (2 pm to 5 pm)

MANIPAL ACADEMY OF HIGHER EDUCATION

Medicinal Chemistry II [PCH-BP501T]

Marks: 75 Duration: 180 mins.

Sections Duration: 150 mins (2:30 pm to 5 pm)

II Long Answers

Answer all the questions.

- Explaining cardiac electrophysiology classify antiarrhythmic agents with one structure from each class – 6 marks
 - Outline the synthesis of Acetazolamide and Diphenhydramine – 4 marks
- Classify Antineoplastic agents giving the structure of one agent from each class- 3 marks
 - Explain the MOA of antimetabolites- 4 marks
 - Outline the method of synthesis of metotrexate- 3 marks

III Short Answers

Answer all the questions. (5 marks each)

- Classification of antihistamines with examples and one structure under each class (5)
- Discuss the SAR of loop diuretics. Outline the synthesis of Furosemide (5)
- Classify antihyperlipidemic agents giving one structure from each class. Explain the structural features of lovastatin responsible for inhibiting HMG-CoA reductase enzyme (5)
- Write the structure and uses of progesterone, prednisolone, Sildenafil, propylthiouracil (5)
- Classify anti hypertensive drugs giving the structure of one agent from each class and explain the MOA of ACE inhibitors (5)
- Write the structure and uses of two endothelial receptor blockers used for the treatment of CHF and two orally active anticoagulants. (5)
- Chlorpropamide have longer duration of action than tolbutamide why? Give the structure of any one alpha glucosidase inhibitors (2.5)
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 - Outline the method of synthesis of Procaine (2.5)