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[BPHARM 0921]

SEPTEMBER 2021 (FEBRUARY 2021 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION THIRD YEAR – (NON-SEMESTER) PAPER II – MEDICINAL CHEMISTRY - I O.P. Code: 564262

Time: Three hours Answer ALL questions Maximum: 100 Marks

I. Elaborate on: $(2 \times 20 = 40)$

1. a) What are anticonvulsants? Classify it with examples.(5)

b) Write the synthesis for the following drugs.(10)

- i) Triclofos Sodium ii) Diazepam iii) Chlorpromazine.HCL iv) Valproic Acid
- c) Describe the Structure Activity Relationship of Benzodiazepines.(5)
- a) Explain the following physiochemical parameters related to biological activity with example.
 - Bioisosterism ii) Protein binding iii) Ionisation iv) Drug-Receptor interaction.

II. Write notes on: $(8 \times 5 = 40)$

- Classify Diuretics with suitable examples.
- Synthesis of Procaine and Dibucaine.
- SAR of Tricyclic antidepressants.
- Name some cholinergic blocking agents and write synthesis of Tropicamide.
- Write the Synthetic route of Furosemide and Amiloride.
- Add a note on COX 1 and COX II inhibitors with mechanism.
- Give some reactions of Phase I Metabolism.
- 8. Explain the theories of Drug-Receptor interaction.

III. Short answers on:

 $(10 \times 2 = 20)$

- Signal transduction.
- 2. Structure and use of Mecamylamine Hcl.
- Reaction product of Malonic ester and urea.
- Write synthetic route of Ketamine Hcl.
- Give the structure of any two anti-ulcer drugs.
- Define Drug Latentiation.
- SAR of Barbital.
- 8. Write about Eicosanoids.
- Explain Neuromuscular blockers.
- Write the synthesis of Promethazine Hcl.

