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[LR 1220]

## DECEMBER 2020 (AUGUST 2020 EXAM SESSION) B. PHARMACY DEGREE EXAMINATION

THIRD YEAR - (Regulation from 2009-2010)

PAPER II - MEDICINAL CHEMISTRY - I

Q.P. Code: 564262

Time: Three hours Answer ALL questions Maximum: 100 Marks

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

 Explain the following physiochemical parameters related to biological activity with Example (4x5=20)

- a) Steric effect b) Protein binding c) Geometrical isomerism d) Hydrogen bonding.
- a) Define anticonvulsants? Classify with examples.(6)
  - b) Give detailed account of Structure Activity Relationship of Local anesthetics. (6)
  - c) Outline the synthesis for (i) Chlorpromazine HCl (ii) Thiamylal sodium.(4+4)

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

- Describe the biosynthesis of adrenergic neurotransmitters.
- Relate the structural features of any four drugs from cholinergic.
- 3. Give four structures of quaternary ammonium compounds as Ganglionic blockers.
- Outline the synthesis and uses of Indomethacin.
- Give the route of synthesis of Chlorthiazide and Procaine.
- Draw any four structures of antihistamines under amino alkyl ethers.
- Give the synthesis and mechanism of action of Doxepin HCl.
- Classify Sedatives and Hypnotics with at-least one structure for each class.

## III. Short answers on:

 $(10 \times 2 = 20)$ 

- Draw the structure and medicinal uses of Methadone HCl.
- Summarize at-least three points about chemistry of Eicosanoids.
- Sketch the structure and medicinal uses of Codeine and Morphine.
- Write a note on Ranitidine and Famotidine in terms of chemistry.
- 5. Outline the structures of Halothane and Enflurane.
- Give two examples as Prodrugs.
- Draw the structure and uses of Propantheline.
- 8. Give two examples of potassium sparing diuretics.
- 9. Sketch two structures of bronchodilato
- Give two reactions of Phase-I Metabolism.

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