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## Final Year B.Pharm Degree Examinations May 2017 PHARMACEUTICAL CHEMISTRY - V (Medicinal Chemistry) (2012 scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Draw chemical structure wherever necessary.

Essay (3x10=30)

- 1. Classify local anesthetics giving one example from each class with structure. Discuss about first line anti tubercular agents.
- 2. Explain the significance of optical isomerism and ionization of drugs in relation to biological action. Describe in detail about molecular modeling in drug design.
- 3. Explain the mechanism of action and use of methotrexate and chlorambucil with structure. Give the synthesis of 5-fluorouracil and methotrexate

Short Notes: (14x5=70)

4. Identify the drug given below and give its synthesis, mechanism of action and use.

- 5. Discuss the mechanism of action of general anesthetics and give the synthesis of any one local anesthetic.
- 6. Give the synthesis and uses of chlorpromazine.
- 7. Classify beta adrenergic antagonists and mention their uses.
- 8. Give the synthesis of one drug belonging to the class of cholinergic agent and cholinergic antagonist.
- 9. Give the synthesis of pethidine and indomethacin.
- 10. Classify antihistaminic agents giving one example from each class with structure.
- 11. Give the structure of hydralazine, niacin, ethacrynic acid, aspirin and triamterene.
- 12. Discuss the SAR and mechanism of action of sulfonyl ureas used as hypoglycemic agents
- 13. Classify antifungal agents with example. Give the synthesis of dapsone.
- 14. Classify antimalarial agents with example. Give the synthesis of DEC.
- 15. Applications of quantum mechanics.
- 16. Antiviral agents.
- 17. Chemistry of tetracyclines

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