QP CODE:411006	Reg. No:
QI OODE.TIIOOO	1109: 110:

Final Year B.Pharm Degree Examinations May 2018

Pharmaceutical Chemistry - V

(Medicinal Chemistry)

(2012 scheme)

Time: 3 Hours Total Marks: 100

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

Essays (3x10=30)

- Classify antibiotics with one structure from each class. Discuss the mechanism of action and synthesis of ampicillin and chloramphenicol.
- 2. Discuss the importance of quantitative structure activity relationship in drug design.
- 3. Classify sulphonamides giving one structure from each class and discuss the SAR of amino quinolines in antimalarial therapy.

Short Notes: (14x5=70)

- 4. Explain the role of antimetabolites in cancer therapy with examples.
- 5. Classify antifungal agents and explain the mechanism of action of clotrimazole
- 6. Outline the synthesis of metronidazole and PAS
- 7. Classify anti-tubercular agents with examples. Give the synthesis of INH.
- 8. Classify antihistaminic agents giving one structure from each class.
- 9. Structure and uses of cyclizine, cimetidine, metoprolol and tolbutamide.
- 10. Discuss the SAR and mechanism of action of ciprofloxacin.
- 11. Classify antipsychotic agents giving one structure from each class.
- 12. Discuss the chemistry of tetracyclines.
- 13. Explain the significance of optical isomerism of drug in relation to biological action
- 14. Outline the synthesis of doxepine and dicyclomine
- 15. Classify cholinergic blocking agents and mention their uses.
- 16. Discuss the applications of prodrugs.
- 17. Classify anticonvulsant drugs and give the synthesis of sodium valproate
