

AV – 2480

Third Year Pharm. D. Examination

MEDICINAL CHEMISTRY

Paper - 3.5

(USC – 35125)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

- Note :** (1) Answer any **Five** questions from Q. no. **Two to Nine**.
(2) Question no. **One** is compulsory.
(3) Illustrate your answer wherever necessary with the help of neat sketches.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (A) Classify antihypertensive drugs with suitable examples and chemical structures. 9
(B) Discuss SAR of quinolone antibacterials. 6
2. (A) Describe chemistry of Macrolide antibiotics. 6
(B) Discuss thyroid and antithyroid agents. 5
3. (A) Diuretics act by different mechanisms. Elaborate the statement with examples. 6
(B) Write a detailed account on structure activity relationship of tetracyclines. 5
4. (A) Which are different medicinal agents used as anti-retroviral compounds for treatment of HIV ? 6
(B) Why sulfonamides act as antibacterials ? 5

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5. Classify antimalarial drugs and discuss mode of action of antimalarial drugs. 11
6. (A) Glucocorticoids are used as steroidal anti-inflammatory agents. Explain how the structural changes affect such activity. 7
(B) Discuss chemistry of chloramphenicol, its IUPAC and mode of action. 4
7. (A) Different chemical classes act as alkylating agents. Illustrate with examples and their actions. 6
(B) Write a detailed note on antimetabolites as anticancers. 5
8. Write notes on any **Two** :—
(A) Antiarrhythmic agents.
(B) Antihyperlipidemic agents
(C) Diagnostic agents. 11
9. (A) Explain chemistry of β -lactam antibiotics along with mechanism of action. 6
(B) Enlist hypoglycemic agents with appropriate examples. 5

