



[Time: 3 Hours]

[Max. Marks: 100]

MEDICINAL CHEMISTRY - II

(Revised Scheme)

Q.P. CODE : 7923

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer **FOUR** questions

LONG ESSAYS (ANSWER ANY FOUR)

4 X 25 = 100 Marks

1. a) Explain in detail the development of cardiovascular drugs using natural product as a lead molecule.
b) Explain phodophyllotoxin as a lead molecule in the development of clinically useful anticancer agents.
2. a) Explain the prodrug approaches to improve the parenteral administration and transdermal absorption of drugs.
b) Write the rationale and practical considerations in design of prodrugs.
3. Give detail account on chemistry, mechanism of action and therapeutic uses of inhibitors of DNA polymerase, DNA topoisomerases and DNA methyl transferase.
4. a) Explain in detail the types and therapeutic values of metal bound pharmaceuticals.
b) Explain the chemistry of protein containing porphyrins.
5. a) Explain the chemistry and mode of action of currently used oral antidiabetic agents.
b) Explain the chemistry and therapeutic values of enzyme inhibitor of carbohydrate metabolism.
6. Give a detail account on drug resistance, types and mechanism of drug resistance and approaches to combat drug resistance in bacteria.

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