Fibiscosk now here agents far be developed from natural preducter and from

- 2. What do you understand by Gene therapy? Explain in detail and discuss its clinical applications and recent advances.
- 3. Discuss the stereochemistry and nomenclature of steroids and elucidate the structure of Testosterone.
- 4. Elucidate the structure of Reserpine and confirm by its synthesis.

## SHORT ESSAY (Answer any Nine)

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- 5. Explain stereochemistry and nomenclature of alkaloids.
- 6. Write note macrolide antibiotics.
- 7. Elucidate the structure of cortisone.
- 8. Discuss principle and method of RNA and DNA estimation.
- 9. Give the structure and uses of the active constituents (at least 3) from a) *Salacia reticulate* b) *Phyllanthus niruri* c) *Swertia chirata* d) *Curmuma longa*
- 10. How do <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and MS spectroscopy help in the characterization of Flavanoids?
- 11. Write a note on Hybridoma technology.
- 12. Discuss the isolation, biological activity and stereochemistry of Ephedrine.
- 13. Write a note on newly developed cardiovascular drugs from natural origin.
- 14. How would you differentiate the structure of steroids and alkaloids on the basis of IR.?

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## 9X 5 = 45 Marks