First Semester M. Pharm Degree Examination - JUNE

[Time: 3 Hours] [Max. Marks: 75]

Chemistry of Natural Products Q.P. CODE: 5120

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3X 10 = 30 Marks

- 1. Discuss about curare alkaloids as neuromuscular blocking drugs.
- 2. Explain structural elucidation of morphine alkaloids.
- 3. Explain the structure elucidation of testosterone.
- 4. Give active constituents of following crude drugs used in indigenous system (Diabetic therapy) Gymnema sylvestre, Salacia reticulate, Sweria chirata, Trigonella foenum

SHORT ESSAY (Answer any Nine)

9X5 = 45 Marks

- 5. Discuss about drugs affecting the central nervous system.
- 6. Write a note on chemistry of Azithromycine.
- 7. Give general classification of alkaloids, isolation and purification of alkaloids.
- 8. Explain structural elucidation of Quercetin.
- 9. What are steroids? Write a note on cardiac glycosides.
- 10. Explain the principles of RNA and DNA estimation.
- 11. Discuss oligo nucleotide therapy.
- 12. How do you differentiate between Alkaloids and Glycosides by IR, ¹HNMR and ¹³CNMR spectroscopy?
- Characterize the monoterpenoids using IR, ¹H NMR and MS spectroscopy. 13.
- -rapy. ***** Discuss about recent advances in gene therapy. 14.