

- NOTE:** 1. All questions are compulsory.  
2. Figures to right indicate marks.  
3. Draw labelled diagrams wherever necessary.

**Q I Answer the following (Any Two) (20)**

- 1) Describe the sources and properties of Alkaloids.
- 2) What are Glycosides? Give its therapeutic uses in detail.
- 3) Define Gums. Give its sources and properties.
- 4) Describe Resin and their therapeutic uses.

**Q II Answer the following (Any Two) (20)**

- 1) Write a note on source, morphology, properties, chemical constituents and uses of saffron.
- 2) Explain deforestation; Discuss its effects on environment and ecosystem.
- 3) What is forest comment on tropical moist forest.
- 4) Enlist and explain the processing of paper.

**Q III Answer the following (Any Two) (20)**

- 1) Explain the transcription termination process in Prokaryotes.
- 2) Explain the process of initiation of transcription in Prokaryotes.
- 3) Enumerate different enzymes involved in DNA replication and comment on its function.
- 4) Describe Theta model with neat labelled suitable diagram.

**Q IV Write short notes on (Any Three) (15)**

- 1) Properties of Volatile oils
- 2) Function of secondary metabolites.
- 3) Community Forestry
- 4) Medical uses of Clove
- 5) Different between DNA and RNA.
- 6) Leading strand.

— The End —