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 ——

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