

- 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) What are Resins? Give general uses of Resins.
- 2) What are Glycosides? Give its detailed sources.
- 3) What are Tannins? Give their source, uses and one suitable example.
- 4) Discuss any two examples of Alkaloids.

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

- 1) Explain the process of mRNA processing in Eukaryotes?
- 2) Explain the process of termination of transcription in prokaryotes?
- 3) Explain the process of initiation of transcription in eukaryotes?
- 4) Describe assembly of transcription machinery on promoters in Eukaryotes.

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

- 1) Describe the source, properties and uses of Cotton.
- 2) What is paper? Describe the types of paper.
- 3) What is reforestation? Describe its need, significance and strategies.
- 4) Describe sources, morphological characters, chemical constituents and uses of clove.

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

- 1) Significance of Indian Pharmacopoeia.
 - 2) Discuss the difference between Primary and Secondary metabolite
 - 3) Discuss difference between DNA and RNA.
 - 4) Describe promoter in eukaryotes.
 - 5) Scope of Afforestation.
 - 6) Chemical constituents and uses of Nutmeg.
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