

Date : 03/10/15 2015-16

VCD - 03/10/15 - BOTANY-III S.Y.B.Sc. SEM III 75 MARKS 2 1/2 HRS (80)

- 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.