

Code: R7422306

**R7****B.Tech IV Year II Semester (R07) Advanced Supplementary Examinations June 2012****PHYTOCHEMICALS AND HERBAL MEDICINE**

(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

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- 1 Give an account on cultivation, importance, collection and processing of crude drugs.
- 2 Write about medicinal aromatic plants of India. Add a note on medicinal plants genetics.
- 3 Explain how the plant tissue culture used for enhancing secondary metabolite production from withania somnifera.
- 4 Write about:
  - (a) Biological drug evaluation
  - (b) Chemical drug evaluation.
- 5 Write a brief note on:
  - (a) Drug adulteration.
  - (b) Fluorescence analysis of drugs.
- 6 Explain about the volatile oil extraction methods. Add a note on volatile oil analysis.
- 7 Give an account on:
  - (a) Alkaloids.
  - (b) Flavonoids.
- 8 Explain various applications of phytochemicals in industry and health care.

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