

Code :R7422306

1

IV B.Tech II Semester(R07) Regular Examinations, April 2011
PHYTOCHEMICALS & HERBAL MEDICINE
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain about scope and importance of crude drugs.
2. Write a brief note on cultivation and utilization of medicinal plants in India.
3. Write a short on:
 - (a) Plant tissue culture.
 - (b) Phytopharmaceuticals.
4. Give an account on methods of drug evaluation.
5. Write a short note on:
 - (a) Spectrophotometry.
 - (b) Fluorescence analysis.
6. Explain about the glycosides extraction methods.
7. What are alkaloids and give an account on extraction methods?
8. Write a short note on:
 - (a) Biofungicides
 - (b) Biopesticides.

Code :R7422306

2

IV B.Tech II Semester(R07) Regular Examinations, April 2011
PHYTOCHEMICALS & HERBAL MEDICINE
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Give an account on cultivation and processing of crude drugs.
2. Write a short note on cultivation and utilization of aromatic plants in India.
3. Explain how the plant tissue culture used for enhancing secondary metabolite production from *Rauwolfia serpentina*, *Withania somnifera*.
4. Write a short notes on:
 - (a) Morphological drug evaluation.
 - (b) Chemical drug evaluation.
5. Write a brief note on:
 - (a) Drug adulteration
 - (b) Type of adulterants
6. Explain about the hydrolysable and condensed types of tannins.
7. Give an account on:
 - (a) Alkaloids
 - (b) Flavonoids
8. Explain various applications of phytochemicals in industry and health care.

Code :R7422306

3

IV B.Tech II Semester(R07) Regular Examinations, April 2011
PHYTOCHEMICALS & HERBAL MEDICINE
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Write a brief note on classification of crude drugs.
2. Explain about the utilization of medicinal and aromatic plants in India.
3. Write a short note on:
 - (a) Anticancer drugs
 - (b) Phytopharmaceuticals
4. Write about the preliminary screening and assay of drugs.
5. Give an account on:
 - (a) Spectrophotometry
 - (b) Drug adulteration
6. Give an account on volatile oils and its extraction methods.
7. Write a note on alkaloids and extraction methods for Papaver, Cinchona.
8. Write a note on:
 - (a) Biocides
 - (b) Biopesticides.

Code :R7422306

4

IV B.Tech II Semester(R07) Regular Examinations, April 2011
PHYTOCHEMICALS & HERBAL MEDICINE
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Write a short note on:
 - (a) Importance of crude drugs
 - (b) Cultivation of crude drugs
2. Explain how genetics can be applied to medicinal herbs.
3. Explain how tissue culture used for secondary metabolite production from *Catheranthus roseus* and *Andrographis paniculata*.
4. Give an account on:
 - (a) Physical and chemical drug evaluation
 - (b) Preliminary screening
5. Explain about the spectrophotometry and flourosce analysis.
6. Write a note on glycosides and its extraction methods.
7. Give an account on:
 - (a) Flavonoids
 - (b) Resins
8. Write a short note on:
 - (a) Biocides
 - (b) Biofungicides
 - (c) Biopesticides
