Code No: 07A82307

R07 Set No. 2

IV B.Tech II Semester Examinations, APRIL 2011 PHYTOCHEMICALS AND HERBAL MEDICINE Bio-Technology

Time: 3 hours Max Marks: 80

> Answer any FIVE Questions All Questions carry equal marks

1.	Give the active constituents and industrial applications of neem.	[16]
2.	Describe the characteristics of Dicotyledonous plants in detail.	[16]
3.	Explain the chemical and biological methods for the assay of Dlosgenin.	[16]
4.	Significance of TLC in separation of alkaloids.	[16]
5.	Explain the following:	
	(a) Chemo microscopy in evaluation of a drug.	
	(b) Palisade ratio.	[8+8]
6.	Write a brief account on morphological and chemical evaluaion of drugs.	[16]
7.	Give official source, chemical constituents and uses of Catharanthus roseus.	[16]
8.	Give the sources of natural drugs.	[16]

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R07

Set No. 4

IV B.Tech II Semester Examinations, APRIL 2011 PHYTOCHEMICALS AND HERBAL MEDICINE Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. Clonal propagation is widely used in propagation of medicinal plants. Justify. [16]
- 2. Give the classification of resins with suitable examples and their industrial applications. [16]
- 3. Give the advantages and disadvantages of biofungicides. [16]
- 4. Explain the techniques involved in the detection of phytosterols and alkaloids .[16]
- 5. Describe the characteristics of Monocotyledonous plants in detail. [16]
- 6. What are the various methods of biological evaluation of drugs. [16]
- 7. What is the role of genetics in improving the properties of medicinal herbs? [16]
- 8. Give an account on active constituents of the following:
 - (a) Sterol and cardiac glycosides.
 - (b) Saponin glycosides. [8+8]

R07

Set No. 1

IV B.Tech II Semester Examinations, APRIL 2011 PHYTOCHEMICALS AND HERBAL MEDICINE Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- Explain briefly about Biotransformation. [16]
 Write a brief account on drug evaluation using microscopic methods. [16]
 Discuss on the factors that influence cultivation of medicianl plants. [16]
 What are the different direct gene transfer methods are applied for introducing novel traits into plants. [16]
 Explain the role of plants as medicines with suitable examples. [16]
 Explain the protoalkaloids with suitable examples and their industrial applications.
- 7. Explain the uses of following with suitable examples:
 - (a) Tragacanth
 - (b) Sodium alginate
 - (c) Pectin

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- (d) Gum karaya. [6+6+4]
- 8. Explain the laboratory methods used for the detection of adulterants in crude drugs.

 [16]

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R07

Set No. 3

IV B.Tech II Semester Examinations, APRIL 2011 PHYTOCHEMICALS AND HERBAL MEDICINE Bio-Technology

Time: 3 hours Max Marks: 80

ime: 5 nours	Answer any FIVE Questions All Questions carry equal marks *****	iax Marks: ot
1. Explain the follo	owing:	
(a) Fractional(b) Steam dist		[8+8]
2. Mention the me	ethods of extraction of glycosides.	[16]
3. What are the so	creening methods employed for estrogenic compond	ls. [16]
4. Write a brief ac	count on pharmacological based classification of place	ants. [16]
5. Explain the qua	alitative tests used for the detection of alkaloids.	[16]
6. Functional food	s and Phytochemicals-discuss.	[16]
	urce, diagnostic characters, chemical constituents are he following four plants:	nd uses of drugs
(a) cinchona(b) Nuxvomica(c) Rauwolfia		
(d) Withannia		[16]
8. Explain briefly	about the advantages of herbal drugs.	[16]