Q.P. Code: 500403

17/05/16

	(3 Hours) [Total Marks:	70
N.B. :	(1) All questions are compulsory.	
	(2) Illustrate answers with sketches and structures whenever required.	
	(3) Answers to subquestions must be written together.	1
		7
1. (a)	Correct the statements if required and justify all the statements with	7
1. (a)	significant reasons or examples.	/
	(i) Volatile oil present in umbelliferae represents chemotay oromical	
	classification. (ii) Abscisic acid is plant growth inhibitor. (iii) Ruthenium red is a microchemical reagent.	
	(ii) Abscisic acid is plant growth inhibitor.	
	(iii) Ruthenium red is a microchemical reagent.	
	(iv) Corm is an example of stem modification.	
	(v) Primary metabolites can be categorized under unorganised drug.	
	(vi) Dien stark assembly follows the principle of hot continuous	
	percolation.	
	(vii) Sterculia gum shows precipitate with barium chloride reagent.	
	Answer the following:	
(b)	Allower the following.	8
	structures and its therapeutic application.	
	(ii) Give the source, composition and application of plant lectin- "ricin".	
	(iii) Differentiate between absorbent and nonabsorbent cotton.	
	(iv) Define substitution of crude drugs and give two suitable	
	examples.	
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2. (i)	Discuss the modern concepts and scope of "pharmacognosy and	3
	phytochemistry.	
(ii)	Discuss the histology / microscopical features of a monocot and dicot root	4
	with a neat labelled diagrams.	
(iii)	Write a detailed note on "guargum".	4
3. (i)	Write general method of extraction for alkaloids or glycosides.	3
(ii)	Discuss the significance of WHO guidelines and enlist all the evaluation	4
4,	parameters mentioned under these guidelines.	
(iii) Co	Write a note on animal fibres.	4

B. Pharm Sem-UT (8565

Q.P. Code: 500403

	4. (i) (ii)	Write a note on morphological classification of DONO. Give the importance of drying and storage of crude drugs with suitable	3 4	
	(iii)	Discuss in detail microwave assisted extraction with suitable applications.	4AX	
	5. (i) (ii)	Write the morphological and microscopic differences between plant of allied species of brahmi or digitalis. Write in detail about chemical method of evaluation of DONO.	4	
	(iii)	Give the importance of drying and storage of crude drugs with suitable examples. Discuss in detail microwave assisted extraction with suitable applications. Write the morphological and microscopic differences between plant of allied species of brahmi or digitalis. Write in detail about chemical method of evaluation of DONO. Give the source, preparation and commercial utility of following: (a) TKP (b) Malt and malt extract	4	6
	6. (i)	Discuss acetate hypothesis or polyketide pathway.	3	
	(11)	Discuss the various environmental factors affecting quality of crude drug. Write a note on proteolytic enzymes obtained from microorganisms.	4	
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		Write a note on proteolytic enzymes obtained from microorganisms.		6
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