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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 5 EXAMINATION - WINTER -2019

Subject Code: 2250006	Date: 28-11-2019
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Subject Name: Pharmacognosy-III

Time: 02:30 PM TO 05:30 PM Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.

	3	. Figures to the right indicate full marks.	
Q.1	(a)	Define and classify the glycosides on basis of aglycone portion along with appropriate examples.	06
	(b)	Explain the chemistry, chemical test properties & uses of anthraquinone glycoside.	05
	(c)	Differentiate between cardenolide and bufadienolide with identification test example.	05
Q.2	(a)	Explain the properties of glycoside, write Extraction and isolation method of glycoside by stas otto method.	06
	(b)	Interpret interrelation between hydrolysis of primary & secondary glycosides found in	05
	(c)	Digitalish purpurea&Digitalish Lanatawith Mechanism of action of digitalis. Elaborate the detail pharmacognosy of squill and Satmuli.	05
Q.3	(a)	Explain the chemistry, chemical test and Properties and uses of tetra & pentacyclic with example.	06
	(b)	Elaborate the detail pharmacognosy of drug known as Mulethi & Manroot.	05
	(c)	Define following term (i) Explants (ii) Totipotency (iii) Callus tissue (iv) Organogenesis (V) Cloningandclone.	05
Q.4	(a)	Define PTC, Write growth principle, Various steps and objective of plant tissue culture.	06
Ų.4	(b)	Explain different type of cell & organ cultures used in PTC along with objective & applications and example.	05
	(c)	What is coumarine glycoside? Write Pharamcognosy of Psoralia & Bhangro.	05
Q.5	(a)	Commentonthefollowingstatements(1)Bitter compound taken before meal (2) Cascarabarkisusedafteroneyearofitsstorage (3) Aloe give Borntragers test while seena modifiedBorntragerstestgive	06
	(b)	WriteonCyanogenicglycosides &Elaborate the detail PharmaconosyofLinum seed	05
	(c)	Drawthestructureofthefollowing.(i)SennosideA&B(ii)Furanocoumarin (iii) Diosgenin (iv)Digitoxigenin (v) Glycyrrhitinic acid	05
Q. 6	(a)	Intricate ideal Design of PTC Laboratory with basic requirements& techniques used in PTC laboratory.	06
	(b)	Writethedifferencebetween(i)Black & White mustard (ii)AlexandrianSennaandIndianSenna	05
	(c)	Writethe Pharmacognosyof any two antidiabetic drugincludedinyourSyllabus	05



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Q.7	(a)	Enlist type of Nutrients medias used in PTC with ideal properties. Discuss importance of
		Micro & Macronutrients & trace elemental requirements in nutrients media.

06

(b) Explain the properties & uses of bitter glycoside with detail pharamcognosy of chirata & kalmegh.

05

(c) Explainfollowingchemicaltest with one name of crude which gives test positives: (i)Sodium hydroxide filter paper (ii)Grignard'stest(iii)Libermann's& Buchardstest.(iv) Keller–killianitest (v) Shinoda test

05

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