Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER • 2015 Subject Code: 2920205 Date: 16-05-2015

Time: 10:30 am - 01:30 pm	Total Marks: 80
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## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Write a note on camptothecin and its synthetic analogues. Discuss pyrethrum as mosquito repellants. Write in detail about anticancer agent and its underground source.	06 05 05
Q.2	(a)	Write in detail about nutritive role of omega 3 fatty acids. Give details of plant sources containing them.	06
	<b>(b)</b>	Enlist plants used as brahmi, Write their source, family and chemical constituents.	05
	<b>(c)</b>	Discuss ginseng as an immunomodulator.	05
Q.3	(a) (b)	Discuss the natural drugs of your syllabus that are used as cardiotonic. Write different chemical tests for screening of tannins in general and also for different classes of this group.	06 05
	<b>(c)</b>	Write a note on anti-ulcer drugs from natural source.	05
Q.4	(a)	What is the role of antioxidants? Discuss groups of phyto-constituents possessing antioxidant potential.	06
	(b) (c)	Discuss mechanism of action of artimisin and quinine. Write a note on insecticides and pesticides from natural source.	05 05
Q.5	(a)	Discuss Borntrager's test and its modifications required for identification of anthraquinones and their reduced derivatives.	06
	(b) (c)	Discuss in detail about Indian gentian. Write a note on calenolides.	05 05
Q. 6	(a)	Enlist plants used as antidiabetic. Write their source, family and chemical constituents.	06
	<b>(b)</b>	Discuss garlic and methi as anti-lipidemic drugs.	05
	(c)	Give in detail the chemical tests for screening the presence of Alkaloids and Carbohydrates.	05
Q.7	(a) (b)	Write a note on methods for screening presence of saponins in crude drugs. Write a note on alkaloids of vinca and their semisynthetic analogues.	06 05
	(c)	Write a note on anti-inflammatory drugs from natural source.	05
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