Seat No.:	Enrolment No
	Γ TECHNOLOGICAL UNIVERSITY STER- I • EXAMINATION – SUMMER-2016

Date: 27/05/2016

Subject Code: 910105 Subject Name: Chemistry of Medicinal Natural Products

Time: 10:30 AM to 1:30 PM **Total Marks: 80** 

**Instructions:** 

	1.	Attemi	ot anv	five o	questions.
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- Make suitable assumptions wherever necessary.
   Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Give role of HPTLC, HPLC and GC in herbal drug evaluation. Give natural source and function of immunoglobulins. Define and classify antibiotics. Give structure elucidation of streptomycin.	06 05 05
Q.2	(a) (b) (c)	Give brief account on Autacoids from natural sources. Give chemistry of Glycoprotein. Elaborate medicinal significance of Gresiofulvin and Penicillin.	06 05 05
Q.3	(a) (b) (c)	Discuss in detail biosynthesis of Streptomycin. List and discuss conventional extraction processes for crude drugs. Give brief note on Microwave assisted extraction of crude drug.	06 05 05
Q.4	(a) (b) (c)	Write stereochemistry and pharmacological activity of Taxol. Give steps for isolation and structure elucidation of Vincristine. Explain biosynthesis of Tropane alkaloids.	06 05 05
Q.5	(a) (b) (c)	Explain in detail Super critical fluid extraction for crude drug with suitable example.  Discuss extraction methods for Volatile oils from natural sources.  Define, classify and give general method for isolation of Glycosides.	06 05 05
Q. 6	(a) (b) (c)	Give brief account on Shikimic acid pathway. Give brief note on Successive extraction. Write an assay on stereochemistry, structure elucidation and biological potency of Glycyrrhetinic acid.	06 05 05
Q.7	(a) (b) (c)	Give note on pressurized fluid extraction method for herbal drug extraction.  Give note on isolation and structure elucidation of Vincristine.  Write biosynthetic pathway for Monoterpenoids.  ***********************************	06 05 05