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UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF PHARMACY

FOURTH YEAR FIRST SEMESTER EXAMINATION – SEPTEMBER 2018 PHANP 4124 NATURAL PRODUCT CHEMISTRY

Date:20.09.2018			me – 2 hours
An	swer	all Six questions.	
1	1.1 1.2 1.3	Name the heterocyclic rings present in purines. Give the different methods for 8-hydroxypurines preparation. Write the therapeutic uses of purine derivatives.	(10 Marks) (40 Marks) (50 Marks)
2	Wri 2.1 2.2 2.3	streptomycin. 6-Aminopenicillanic acid. SAR of chloramphenicol.	(30 Marks) (30 Marks) (40 Marks)
3	3.1 3.2 3.3	List the natural steroids. Describe the stereochemistry of steroids. Give the conversion of lithocholic acid into cholanic acid.	(20 Marks) (45 Marks) (35 Marks)
4	4.1 4.2 4.3	Give the oxidation reaction of uric acid. Determine the presence of amido imidol tautomerism in caffeine. Discuss the structural relationship of caffeine and uric acid.	(20 Marks) (50 Marks) (30 Marks)
5	5.15.25.3	Classify the beta lactam antibiotics with an example for each type. Draw three semisynthetic penicillins having isoxazoyl ring in their structure. Indicate how phenoxymethylpenicillin could be synthesized from pthalamide	(20 Marks) (30 Marks) ? (50 Marks)
6	6.16.26.3	Name the natural occurrence of oestrogenic hormones. Draw the structures of three starting compounds for the progesterone production. Give the synthesis of testosterone from cholesterol.	(15 Marks) (30 Marks) (55 Marks)