

## **NATIONAL OPEN UNIVERSITY OF NIGERIA**

14/16, Ahmadu Bello Way, Victoria Island

## SCHOOL OF SCIENCE AND TECHNOLOGY October, 2013 Examination

Course Code: CHM 318

**Course Title: Natural Products Chemistry I** 

INSTRUCTION: Answer any 4 questions. 2		2 HOURS
1.	(a) Write a short note on Steroids	(7½ marks).
	(b) Explain Steroid Biosynthesis	(10 marks).
2.	(a)What are terpenes.	(3marks).
	(b)Discuss 5 major classes of terpenes	(10marks).
	(c)Draw the structure of a named terpene	(4.5marks).
3.	(a)Write a short note on Alkaloids?	(5marks).
	(b) Explain concisely the applications of Alka	aloids in Medicine (12½ marks).
4.	<ul><li>(a) With the aid of a well-labeled diagram, de</li><li>(b) Name 2 drugs that target the Mevalonate I</li></ul>	(14½ marks).
5.	(a) Discuss the properties of Alkaloids	(11½ marks).
	(b) Draw the structures of 2 named Alkaloids	(6marks).
6.	(a) Discuss five examples of dimeric alkaloids	(12½ marks).

(5marks).

(b) What do you understand by the term steroidogenesis?