NATIONAL OPEN UNVERSITY OF NIGERIA

PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA

FACULTY OF SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES JANUARY 2018 EXAMINATION QUESTIONS

CHM: CRED TIME INST	DIT: 2 UNIT		IY OTHER T	HREE QUE	STIONS.	
QUES	STION 1 (a). i). Write short	note on the following:				
	 Sesquiterpenes 	(3 marks) (4 marks) (3 marks)				
(b).	What is Steroid?.	(5 marks)				
(c).	What are the properties of All	kaloids? (10 ma	ırks)			
_	erpenes. (a).Give three examples (6 mark	<u> </u>	nocyclic mon	oterpenes an	d bicycli	
(b).	What are the sources and uses	s of the following terpo	enes?	(9 marks)		
	Farnesol, Farnesene, N	Nerolidoland Cadalene	!			
QUES	STION 3. (a) (i). Discuss the ge	eneral structure of ster	oid.	(3 marks)		
	(ii). Discuss the skeleton of st	eroid (gonane) (3 mar	ks)			
(b).	(i). Differentiate between the two types of corticosteroids. (3 marks)					
(ii). What are the functions of anabolic steroid		anabolic steroid and o	cholesterol.	(2 r	narks)	
(c).	(i). What is steroidogenesis?		(1 mark)			
	(ii). Write short note on degradation and elimination processes of steroids. (3 marks)					
QUES	STION 4 (a). Write on the h	istory of alkaloids.	(7 ½ i	marks)		
(b).	How can alkaloids be extracted?		(5 marks)			
(c).	List five methods for synthesis of alkaloids.		(2 ½ marks)			
QUESTION 5 .(a). (i).What are the biological roles of alkaloids? (2 marks)						
	(ii). Give the medicinal applicatine, Codeine, Cocaine, Curarine and Emetine.	_		• •	Morphine	

(2 ½ marks)

(3 marks)

(2 ½ marks)

(iii). Give five examples of pseudoalkaloids.

Describe the psychoactive drug use of alkaloids.

What is an alkaloid?

(b).

(c).