

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN MARINE RESOURCES

ACH.4118: ORGANIC CHEMISTRY

END OF SEMESTER EXAMINATION

SERIES: APRIL2016

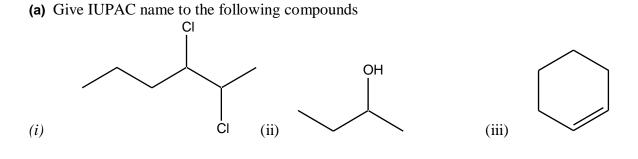
TIME: 2HOURS

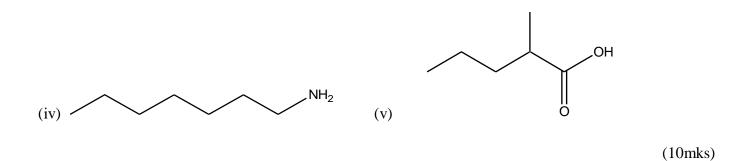
DATE: Pick DateMay2016

Instructions to Candidates

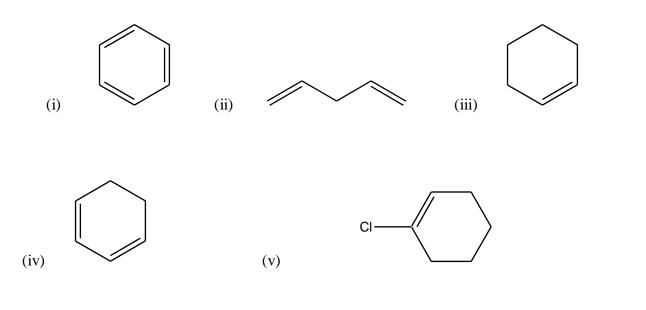
You should have the following for this examination *-Answer Booklet, examination pass and student ID* This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

Question ONE



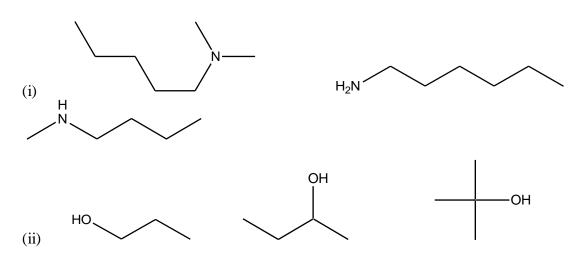


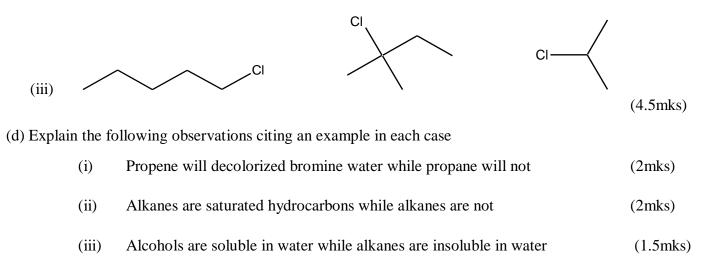
(b) Calculate the degree of unsaturation in the following compounds



(10mks)

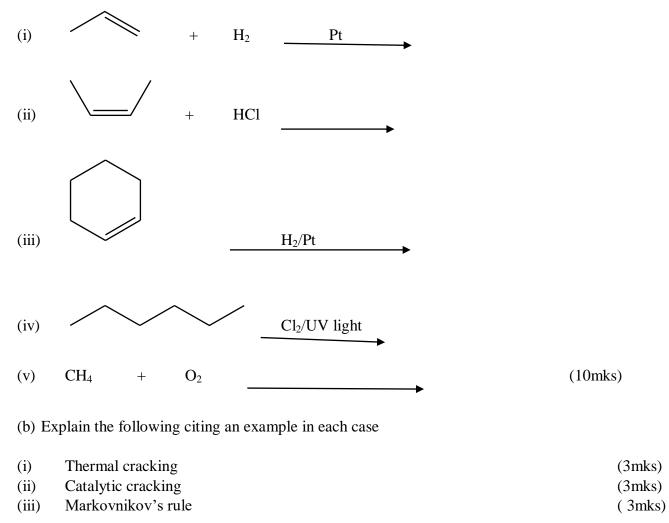
(c) Classify the following compounds either as primary, secondary or tertiary amines, alcohols or alkyl halides or.





Question TWO

(a) Draw the major products in each of the reactions below



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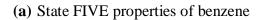
(iv)	Hydration	(1mks)
Question	THREE	
(a) O	Putline the	
(i)	Physical properties of alkanes	
		(10mks)
(ii)	Physical properties of amines	
		(10mks)

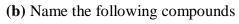
Question FOUR

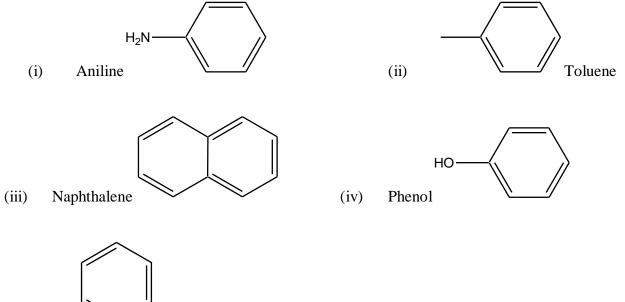
(a) Outline TWO methods of preparation of the following			
(i)	Alcohols	(5mks)	
(ii)	Alkenes	(5mks)	
(iii)	Alkynes	(5mks)	
(iv)	Amines	(5mks)	

Question FIVE

(v)







(c) State any FIVE applications of alkenes

(10mks) (5mks)

(5mks)