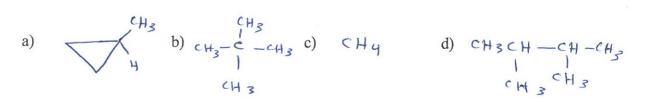


Philadelphia University Faculty Of Science Department Of Biotechnology and Genetic Engineering Second semester 2015-2016 Organic Chemistry 0212243

SECUND EXAM						
Time: 60 min.			Date:22/8/2016			
Name	:			Student No.:		
Quest	tion 1: Circle the corn	ect answer in e		following:		
 What type of carbcation will form from the addition of a H+ to 1- methylcyclopentene 						
	a) Methylene	b) 1°	c) 2°		d) 3°	
2.	Which of the follow	ing is conjugate	ed alkene			
		b) 🔨	c) <u> </u>	=\	d)	
			=))
		\sim				
3. In the following structure, which hydrogen is the most acidic:						
		Ma Hc	/			
		1	< H c	A		
		He	C			
	a) Ha b) Hb	c) Hc		d) Hd	
4.	The most stable conf	formation of 1,2	-Dibromoe	ethane is:		
	a) B b		HH	d)	none	
	H J B-	(4)	T	Tor	,,,,,,	
	H	B	Br	X		
	H H	B# H	H	H		
5.	What is the correct I	UPAC name of	:			

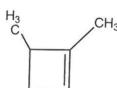
- - a) 1-Chloro-5ethyl-3-methyl-2-hexene
 - b) 7-Chloro-3,5-dimethyl-5-heptene
 - c) 6-Chloro-2-ethyl-4-methyl-4-hexene
 - d) 1-Chloro-3,5-dimethyl-2-heptene
- 6. Which compound among the following will give two monochloro products upon reaction with Cl₂/UV light



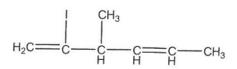
- 8. Cis-trans isomerism is possible only in the case of
 - a) $H_2C \longrightarrow CI_2$

- c) CIHC CHCI
- b) H₂C == CHCI d) Cl₂C == CHCI

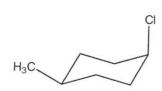
Question 2: Give The IUPAC name of each of the following:

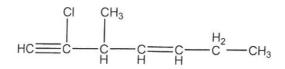


2.



3.





5.

Question 3: Classify the following pair of structures as constitutional Diasteriomers, Conformers , identical, not isomer

a.



CI C

......

b.



H H

•••••

c.

H CH .

......

d. CH3CH2CH3



.....

e.



I I

Question 4: complete the following reaction:

1. $\int \int \int d^{3} d$

2.
$$+ H_2O \xrightarrow{H_2SO_4}$$

4.
$$CH_2 = CH - CH = CH_2 + Br_2$$

5.
$$CH_3-C\equiv c-cH_3+H_2$$
 Pd

Good Luck