CHEM 102 Organic chemistry

(Test past questions)

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Name the following alkyl substituents: O (a) CH- O (b) CHCH- O (c) CHCH- O (c) CHCH- O (d) CHCH-
 Draw the structure and give the systematic name of a compound with indecider formula. C₃H₄; that has
(a) Only primary and secondary hydrogens.
2-11 OR CHICHICHICHICHICHI OR CHICHIDICHI M-BEN EUN
(b) Only primary hydrogens.
(a) Chily brusses that oders?
(c) One tertiary hydrogen and two secondary hydrogens. OR HIC-FH-CH2CH3 2-Methol but aime ()
5. Give the IUPAC names of the following compounds. (a) CH1=CHCH1CH2CH1
(a) Ho C G G CH (d) Ho Ho CH CH HO HO CH POPUL) - 2
OR 2-Ethyl-1-pent-1-en 7-Isoprapyl-213-dimethyldes 6. What would be the major product obtained from the addition of HBF to
OCH, JA OR JA @
7. Complete the following reactions:
снусиуси = сн2 + н20 н2504 , СН3 СН2 СН2 СН2 СН3 (3)
8. Which of the following compounds do not exist or are not possible?
(c) 1-Propene 2pm, Monday, 22 February 2021 FAMER 6 (c) 1-Propene Cont 101 TEST
Note: "ene" can be accepted in place of en place



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- 2. Years swamp as blands are thorn in this are?
- 2. Hammitte following alloy substituents (in) Chip DOLDHON!

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- A. Driew the atracture and give the systematic name of a content of with most for formula Cottor they has
 - (N) Clinty privately and secondary hydrogens.
 - (b) Cinty printery bydyogens.
 - (c) Ohe terdary hydrogen and two secondary hydrogen-
- 5. Give the TUPAC names of the following compounds.
 - (a) CH-+CHCH;CH;CH;C+CCH; (b) OHOHWOHOWOOH

6. What would be the major product obtained from the addition of High to



7. Complete the following reactions:

CHSCHOOLSCH -- CH2 +

8. Which of the following compounds do not exist or are not possible?

(a) 4-Propend

(b) 主·Ethyne

(c) I-Properse

Jen, Honday, 22 February 2021

PARES B

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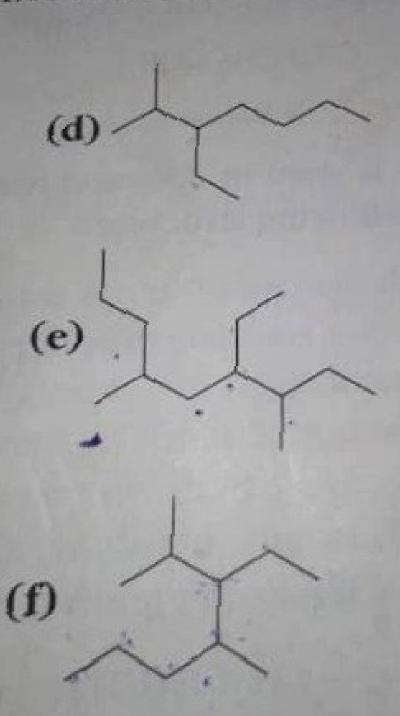
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AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I		Seed No.
The name of the German Chemi- materials is:	at who synthesized the first	
2. stydrocarbons can be grouped into		
The series of compounds having to City unit is called a	the same general formular with series.	in successive members differing the
4 and	_ species are formed by name	roytic cleavage of CHICHIBI.
5. Ethere and etnyne are both hydrosond angles and shapes. They are has and	respectively	The Columbia of the Columbia o
& The benzene ring is unusually cher		
According to the systematic (IUPA) Identify the longest con- group	(indous	in naming projects compounds is to containing this
E. 1,3-Butadiene has sigma	band(s) and	du(s).
9. Dehydrohalogenation of 2-bromot	outaine employing KOH _(all.) will	l yield
10 For a compound to be said to	be aromatic, it must be o	voic, fully conjugated, planer and
II. The reversible rewrangement of e	nal to ketone or aldehyde is kr	20WT 83
Dichlerodifluoromethere	g compounds:	
t. 2,5-Dimethyl-3-heatens		
c 3-heyne .		
6. 2,4,6-Trintrophonol		

ect IUPAC name for each of the following



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	PROPERTY.
	The same of the Century Chartest with synthesized the first a party of
	Automations can be grouped into two farge categories and
3	The series of compounds having the same general formular with successive members differing by series.
	and species are formed by interptytic cleavage of CHICHUR.
	Etherie and ethyrie are both hydrocarbons having only two carbons each, but they have different bond angles and shapes. They are and respectively!
	The berusine ring is unusually chemically stable due to
	According to the systematic (IUPAC) nomenciations, the first step in naming crossic containing the identify the longest continuous containing the group.
'n.	1.3-Butadiscret has signal bond(s) andpribonds(s).
3	Datydistislogenation of 2-brusisticane employing KDH
10	For a compound to be said to be varomatic. It must be cyclic, fully conjugated, planar and
11	The reversible rearrangement of enel to ketone or aldehyde is known as
12	Give the structures of the following compounds:
	a. Oschlorodifluorumethanic
	ts. 2,5-Dimethyl-3-hirotime
	c. 3-Heryne
	A TAKEN AND AND AND AND AND AND AND AND AND AN

2 pm Manday, 6" December 2023



RIVERS STATE UNIVERSITY ENERAL CHEMISTRY III SECOND SEMESTER TEST, THREE DEPARTMENT OF CHEMISTRY

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Coctrine of the	and organic man
Z. The doctrine or theory of originate from living things.	without pying
Inving thin	in the last
3. 10	the first organic compound synthesized in the lab states that 'organic compound states that 'organic compo a responsible for the chemical properties of a comp products of a
or a province	states that 'on
A group of atoms who	organic compo
a wind)	I respect
1	— consible for the
and .	of the com-
5. Both bettere and cyclohexane have bond angles. Their bond angles are	compound superues of a second
5 Both har second are	products of homolytic cleavage of Cb. six carbon atoms and a ring structure, but they have respectively.
bres domine and one	moduces of hornors
angles The Youhevane A-	and you deaven -
. As bond anni-	Six Carton
a disphasic and are	atoms and -
	and a ring structure
7 D Sometime	respectively, but they a
news pro	is rise to
Classifier	six carbon atoms and a ring structure, but they have and respectively. It rise to cis and brans or E and Z isomers.
into	or E and ? L
8. The	- morners
According to the	ang to the
cording to M. Dut-1-ene with a	arrangement
a drkovnikom nydroge	ing to the arrangement of the double bonds on locked gives 1-locked gives 2-locked and 2-locked gives precioninates?
a nile, which	odide gives Li
	the product
10.Com	predominate and 2-lodove
TOOMERE has	and a property of the
111	
10. Cyclobutene has sigma bond(s) a sigma bond	are two isomers of C.His. pi bond(s). is referred to as ortho substitution while 1,4-doubstitution unds: (ff., (a))
& Patal Denven	and an americal of CH
Subject disubstance	proond(s).
12 Green Total From The Control on	is ref
ale throma-	THE D AS OFFE
a. 2,2,4 Trimethyl pentane CT 3 CT CT	and substitution
Comment of the Comment of Comment	white I do
p is same called	unds — Constitution
3 CT CH	5773
a. 2,2,4 Trimethyl pentane CTI 3 CTI CTI 3 D. 1,5 Heptadane CTI 3 CTI CTI 3 C 5-Heptan-1	Chaole
S-Hepton CH CHL CH	
+ vne 2Ch.	- A
d. Toluene	(C) (M)
and Ci	1

Review questions

Insert the missing reagent in the following equations:

Review question

Insert the missing reagent in the following equation

Answers

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		DEPARTMENT III (CHM 102) FOR 2021/2022 SESSION		
SYN	IOPSIS C	DEPARTMENT OF CHICKESTON OF GENERAL CHEMISTRY III (CHM 102) FOR 2021/2022 SESSION TOPIC/HIGHLIGHT		
DATE	WIELE			
25/07/2022	1	Introduction Historical development of Organic Chemistry (including 'The doctrine of Vitalism' and synthesis of urea by Friedrich Wohler). Importance of Organic Chemistry. Nomenclature and classes of organic compounds.		
01/08/2022	2	Covalent bond, Bond cleavages, Bond length, Bond angles and Polarity of bond. Hybridization		
08/08/2022	3	Saturated Hydrocarbons Homologous series, Isomerism, Nomenclature (IUPAC), Preparations and Substitution reactions.		
15/08/2022 4		Unsaturated Hydrocarbons I – Alkenes Nomenclature (IUPAC), Geometric isomerism, Preparations (including Elimination reactions - Dehydrohalogenation, Dehydration, Dehalogenation and Reduction of alkynes).		
22/08/2022	5	Unsaturated Hydrocarbons II – Alkenes Reactions (including Addition reactions – Hydrogenation, Halogenation, Hydration, Hydroxylation; Markovnikoff addition, Ozonolysis, Polymerization, Dimerization, Halohydrin formation, Oxymercuration-demercuration, Hydroboration-oxidation, Halogenation/Allylic substitution and Addition of free radicals).		
29/08/202	2 6	Unsaturated Hydrocarbons III - Alkynes Nomenclature (IUPAC), Preparation (including Alkylation of acetylene and terminal alkynes, Elimination reactions), Reactions (with hydrogen, halogens, water and hydrogen halides), Formation of acetylide ion with heavy metals (like silver and copper), Tautomerism and Ozonolysis.		
05/09/202	2 7	Aromatic Hydrocarbons – Benzene Aromaticity/Aromatic character, Nomenclature (IUPAC) - ortho, meta, para. Preparation (dehydrogenation of cyclohexane and dehydrogenation with cyclization of aliphatic hydrocarbons). Reactions - Electrophilic Aromatic Substitution (Nitration, Halogenation, Friedel-Crafts alkylation, Friedel-Crafts acylation, Sulphonation, Protonation and diazo coupling). CONTINUOUS ASSESSMENT		
12/09/202	22 8	Introduction to Stereochemistry Chirality, Stereogenic center, Optical activity, Polarimeter, E and Z system of		
19/09/2022 9		nomenclature (The Cahn-Ingold-Prelog priority rules). Chemistry of some metals - Iron and Aluminum Properties, Extraction, Electrolysis and Uses. Some Alloys.		
26/09/20	22 10	Properties, Preparation and Uses. Structure of Solids		
		REVISION and EXAMINATION		

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