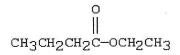
Fact 1:	Introduction to Chemistry II Lecture Spring 2021 D	r. Hahn (9 am MWF) 2/10/21	Wednesday The Cit	adel
	numoduction to chemistry it because Spring 2021	TO STAND CONSUMER OF THE STAND STANDS OF THE	ST	
Name_	rey	test	# _23_	
	Short Answer portion of the test, please show work on all on NO partial credit	uestions for partial and full cred	lit. On the multiple cho	oice questions,
	MULTIPLE CHOICE. Choose the one alternative t h, 60 pts)	hat best completes the staten	nent or answers the q	uestion. (5
	1) LDPE finds applications as			1) 4
	A) plastic film. C) plastic television trays.	B) drain pipes.D) threaded bottle caps.	2	
	c) plastic television trays.	b) threaded bothe caps.		^
	2) The intoxicating alcohol in "alcoholic" beverages is A) methyl alcohol.	B) 1-propanol.		2)
	C) rubbing alcohol.	D) ethanol.		A
	3) An example of a molecular formula of an alkane is		- 2	3)
	(A) C ₆ H ₁₄ . (B) C ₅ H ₁₂	C) C5H10.	1 D) C6H6.	0) — (5)
	4) The unique aspect of a saturated hydrocarbon is the	typo		. A
	4) The unique aspect of a saturated hydrocarbon is that it must/contain (A) only single bonds. (B) only carbon and hydrogen.			
	C) single, double and triple bonds.	D) single and double bor	7.0	
	5) Carbon is almost always (valent means – number	of bonds attached to C)		5)
	A) trivalent. B) monovalent.	(C) tetravalent.	D) divalent.	
	In representing the general formula of various functional groups, the symbol R stands for			
	A) an aromatic group. C) an alkyl group.	B) a halogen atom. D) a ring.		
	Chart alkyr group.	D) a inig.		0
	7) What is the name of the compound with a formula		T) //	7) _{5
	A) methane (B) butane	C) propane	D) ethane	
	8) Monomers			8)
	A) are small polymers. C) are small building blocks of polymers.	B) cannot form polymersD) are ethylene.	5.	
				1
	9) The compound below is a(n)			9)
	O II			
	CH3CCH3			
	A)/ketone. B) alcohol.	C) aldehyde.	D) carboxylic acid.	inaces.
35 25	(0) Alkanes are often called		_	10)
	A) saturated fats. C) carbohydrates.	B) unsaturated hydrocar D) saturated hydrocarbo		
	and annual annua	1 - your arrance riyarocarbo	****	

11) The	compound	below	is a	(n)

- A) carboxylic acid.
- B) ketone.
- (C) aldehyde.
- D) alcohol.
- 12) A compound that contains only carbon and hydrogen is a(n)
 - A) carbohydrate.
- B) alcohol.
- C) homolog.
- D) hydrocarbon.
- 12)

13) The compound below is classified as a(n)

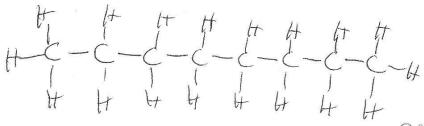
13)



- A) ester.
- B) carboxylic acid.
- C) aldehyde.
- D) ketone.

Part 2: Short Answer Please show work on all questions for partial and full credit. (40 pts)

- 1. For the alkane given as a condensed structural formula (CH₃ CH₂CH₂ CH₂ CH₂ CH₂ CH₃) give (12 pts, 6 pts each)
- (a) Structural formula



(b) Skeletal (or line bond) formula



2. Give 2 structural isomers of the following molecule. (8 carbon alkane) (12 pts, 6 pts each)

CH₃ CH₂CH₂ CH₂ CH₂ CH₂ CH₃

Name the following molecule (10 pts)

3-chloro-7-meth

4. If you did the following reaction which would be your product? circle one best answer (6 pts)