Name Practice Questions			Organic Reactions
-	ormula represents the pro-	ducts formed from the reaction	n of Cl2 and C2H4?
1. сі сі н-с=с-н	2. нн н-с-с-н сісі	3.	4. нн н-с-с-сі нн
2. An alcohol and an	organic acid are combine	d to form water and a compou	and with a pleasant odor.
This reaction is an		-	-
1. Saponification	2. Esterification	3. Polymerization 4.	Fermentation
3. Which equation re 1. $CH_4 + 2O_2 \rightarrow C$ 2. $C_2H_4 + Br_2 \rightarrow C$		action? 3. $C_3H_6 + H_2 \rightarrow C_3H_8$ 4. $C_4H_{10} + Cl_2 \rightarrow C_4H_9Cl +$	- HCl
4. Given the equation	$: C_6H_{12}O_6 \rightarrow 2C_2H_5OH +$	- 2CO2	
	ess illustrated by this equa		4. Polymerization
5. Given the equation	1:		
		H H H H H H	
Which type of reaction 1. Combustion	is represented by this equ 2. Esterification		4. Substitution
6. Which reaction re 1. Esterification	sults in the production of 2. Fermentation	-	4. Saponification
	l equation below represen $3CH_2CH_3 + Br_2 \rightarrow CH_3C$	ting a reaction. This organic H2CH2Br + HBr	reaction is best classified as
1. Addition	2. Esterification	3. Polymerization	4. Substitution
8. Given the balanced 300.°C and 101.3 kil		reaction between butane and c	chlorine that takes place at
	*	in the chemical equation: C4H 3. Fermentation	$10 + Cl_2> C_4H_9Cl + HCl$ 4. Substitution
9. Given the balanced	l equation with an unknow	wn compound represented by	<i>X</i> :
	1	$\xrightarrow{\text{zyme}} 2X + 2CO_2(g)$	
Which compound is repr	resented by X?		
1. CH ₃ OH(aq)	2. CH2(OH)4(aq)	3. CH ₃ CH ₂ OH(aq)	4. CH2OHCH2OH(aq)
10. Given the balance best classified as	ed equation for an organic	c reaction: $C_2H_2 + 2Cl_2 \rightarrow C_2H_2$	H ₂ Cl ₄ This reaction is
1. Addition	2. Esterification	3. Fermentation	4. Substitution

11. Given the reaction: $X(g) + Cl_2(g) \rightarrow XCl_2(g)$ Which compound could be represented by X?1. CH42. C2H43. C3H84. C4H10

	: butanoic acid + 1-pentano ganic compounds does produc 2. Ester 3. H			
13. Given the reaction:	$CH_3 C - OH + HOC_2 H_5 \rightleftharpoons$	О Ш СН ₃ С — О — С ₂ Н ₅ + Н ₂ О		
This reaction is an example of				
1. Fermentation	2. Saponification	3. Hydrogenation 4. E	Esterification	
 14. Given the equation: C₂H₆ + Cl₂ → C₂H₅Cl + HCl This reaction is best described as addition involving a saturated hydrocarbon addition involving an unsaturated hydrocarbon substitution involving an unsaturated hydrocarbon substitution involving an unsaturated hydrocarbon 				
15. Which type of reaction is represented by the equation to the right? Note: n are very large numbers equal to about 2000.		$n\begin{pmatrix}H\\ H\\ H\end{pmatrix} c = c\begin{pmatrix}H\\ H\\ H\end{pmatrix} \longrightarrow \begin{pmatrix}H\\ H\\ -c - c\\ -c\\ H\\ H\end{pmatrix}_{n}$		
1. Esterification	2. Fermentation	3. Saponification 4. P	olymerization	
16. Which formula correctly represents the product of an addition reaction between ethene and chlorine?1. CH2Cl22. CH3Cl3. C2H4Cl24. C2H3Cl				
17. The reaction <i>n</i> C ₂ H 1. Saponification	$4 \rightarrow (-C_2H_{4-})_n$ is an example of 2. Esterification		4. Fermentation	
18. The process of joining many small molecules into larger molecules is called				
1. neutralization	2. polymerization	3. saponification	4. substitution	
19. Draw out the substitution reaction between C4H10 and Cl2. Name the product(s).				

20. Draw out the addition reaction between 1-butene and chlorine gas. Name the product(s).

21. Draw out the esterification reaction between propanoic acid and 1-propanol. Name the product(s).