1	L. Wł	nich compound listed below is an isomer of hexane?							
		a)	cyclohexane	b)	2-methylpent-2-ene				
		c)	2,2-dimethylbutane	d)	2,4-diethylbutane				
2	2.	Which substance below is an isomer of 3- ethyl-2-methylpentane?							
		a)	cyclooctane	b)	2,2,3,3-tetramethylbutane				
		c)	2,2,3- trimethylpent-1-ene	d)	1,2,3-trimethylbenzene				
3	3.	Which	of the following substances is NOT	an isome	er for 2- methylbutanoic acid?				
		a) 3-r	methylbutanoic acid	b)	pentanoic acid				
		c) 2-r	methylpropanoic acid	d)	2,2-dimethylpropanoic acid				
4.	The o	compou	and that is NOT an isomer for C_5H_{10} is	5					
		a)	methylcyclobutane	b)	cyclopentene				
		c)	2-methylbut-1-ene	d)	1,2-dimethylcyclopropane				
5.	Whic	th subst	ance below is an <u>isomer</u> of 3-methy	l-3-hexe	ne?				
		a)	methylcyclohexane						
		b)	cycloheptene						
		c)	2,3,3- trimethylpent-1-ene						
		d)	p-dimethylbenzene						
6.	Which of the following substances is NOT an isomer for 3- methylpentan-2,3-diol?								
		a) 1,3	3-hexanediol						
		b) 4-methyl-1,1-pentanediol							
		•	xaneoic acid						
		a) 3,3	3-dimethyl-1,2-butanediol						
7.	Whi	ch of th	e following is an isomer of C ₈ H ₁₇ OH	?					

Organic: Isomers

a) octan-2,3-diolb) 3-ethyloctan-2-olc) 2-ethylheptan-3-old) 2-methylheptan-3-ol

8.	Which compound is an isomer of heptyne?							
	a)	2,4-dimethylhex-2-yne						
	-	3,3-dimethyl hex-2-yne						
	-	2,3,3-trimethylbutan-1,3-diene						
	d)	4.4-dimethylpent-2-yne						
9.	Which of th	e following is NOT an isomer for C ₄ H _{10?}						
	a)	2-methylpropane						
	b)	methylpropane						
	c)	2-ethylpropane						
	d)	butane						
10	. Consider th	e condensed structural formula : CH3CH2CH2OH						
	This formula	a represents a(n) compound that contains a(n)functional group and is classed						
	as a(n)							
	· · · · · · · · · · · · · · · · · · ·	aliphatic, carbonyl group, ester						
	-	aromatic, hydroxyl, ester						
		aliphatic, hydroxyl, alcohol						
	a)	aromatic, carbonyl, alcohol						
11	. Consider th	e four chemical compounds listed in the table below						
	1	Dronanois asid						
	2	Propanoic acid Methylpropanoate						
	3	Acetic acid						
	4	methylmethanoate						
	The formula	as above that represent structural ISOMERS of each other are						
	a) 1	and 2						
	•	and 4						
	•	2 and 3						
	d) 3	B and 4						
12	. Which of th	e following IUPAC names identifies an isomer for C ₆ H ₁₂ ?						
	a) (cyclohexene						
	b) r	methylcyclopentane						

c) 4-methylpentyne

d) hex-3-yne

12 All of the fol	lowing compounds are icomors of next 2 and except
13. All Of the lo	lowing compounds are isomers of pent-2-ene, except
a)	2,2 - dimethyl propane
b)	cyclopentane
c)	methylcyclobutane
d)	3 - methyl but-1-ene

14. Numerical response question

Left justify your answer in the boxes provided.							

List all the compounds in the list below that are <u>structural isomers</u> of oct-3-ene.

- 1. 5,5 dimethyl hex-3-ene
- 2. 4-ethyl -2-methyl pentane
- 3. Ethyl cycloheptane
- 4. Oct-1-ene
- 5. 2,3-dimethyl pentene

List the answer(s) in ascending order.

Solutions:

- 1. C
- 2. B
- 3. C
- 4. B
- 5. A
- 6. C
- 7. D
- 8. D
- 9. C
- 10. C
- 11. D
- 12. B
- 13. A
- 14. 14