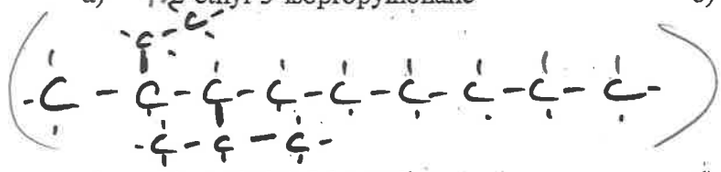
SCH4U1 **Organic Nomenclature Quiz** Name Answers

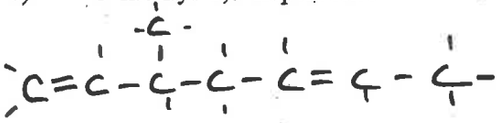
1. Draw a structural diagram for each organic compound:

a) 4-2-ethyl-3-isopropylnonane

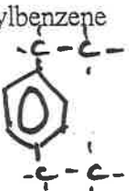


b) methylcyclopentane

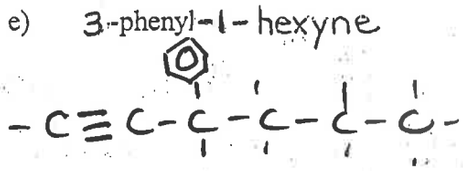
c) 3-methyl-1,5-heptadiene



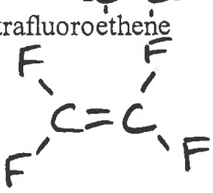
d) ρ-diethylbenzene



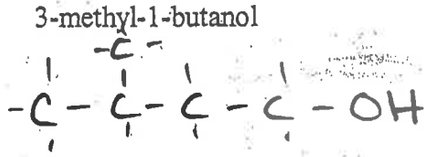
e) 3-phenyl-1-hexyne



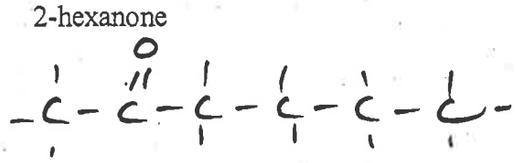
f) tetrafluoroethene



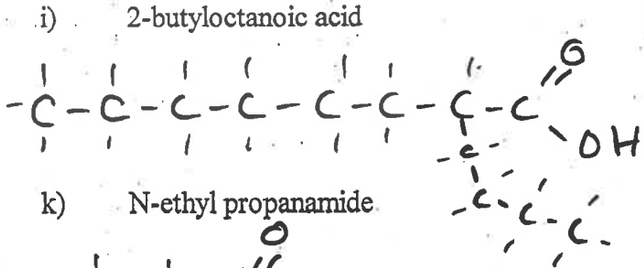
g) 3-methyl-1-butanol



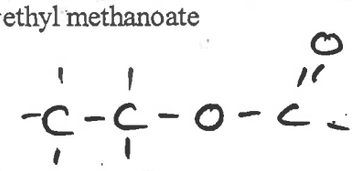
h) 2-hexanone



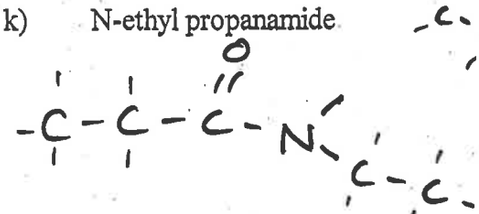
i) 2-butyloctanoic acid



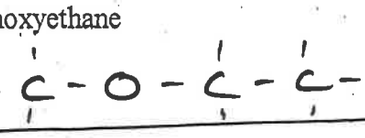
j) ethyl methanoate



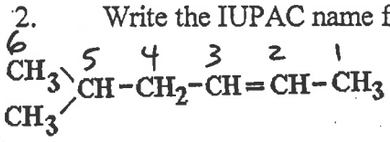
k) N-ethyl propanamide



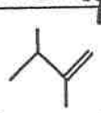
l) methoxyethane



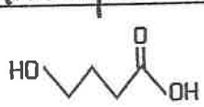
2. Write the IUPAC name for the following structures:

1. 

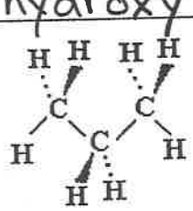
6-methyl-2-hexene

2. 

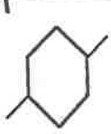
2,3-dimethyl-1-butene

3. 

4-hydroxybutanoic acid

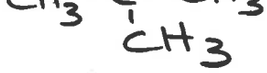
4. 

propane

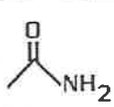
5. 

1,4-dimethylcyclohexane

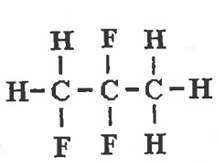
8. $(CH_3)_4C$



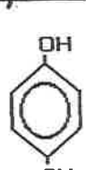
dimethylpropane

9. 

ethanamide

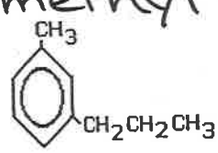
10. 

1,2-difluoropropane

11. 

1-hydroxy-4-methylbenzene

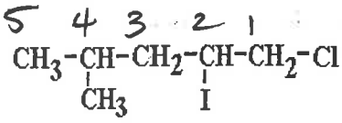
or 4-methylphenol

12. 

meta-methylpropylbenzene

3-methyl-1-propylbenzene

Answers

6. 

1-chloro-2-iodo-4-methylpentane

7. CH_2F_2

difluoro methane

13. 

1,4-dichlorobenzene

14. $CH_3-CH_2-O-CH_2-CH_2-CH_3$

1-ethoxypropane

15. $CH_3-CH_2-O-CH(CH_3)-CH_3$

2-ethoxy propane

16. $CH_3-CH_2-CH(CH_3)-C(CH_3)=CH_2$

2,3-dimethyl-1-pentene

17. $CH_3-C(CH_3)(CH_3)-C(CH_3)=CH_2$

2,3,3-trimethyl-1-butene

18. $CH_3-CH_2-CH(CH_3)-C(=O)H$

2-methyl butanal

19. $CH_3-CH(CH_3)-CH_2-CH_2-CH_2-OH$

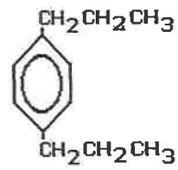
4-methyl-1-pentanol

20. $CH_3-CH_2-CH_2-CH_2-C(=O)NH_2$

pentanamide

21. $CH_3-CH_2-CH(CH_2-CH_3)-CH_2-CH_2-C(=O)OH$

4-ethyl hexanoic acid

22. 

1,4-dipropyl benzene

23. $CH_3-CH_2-C(=O)NH_2$

propanamide

24. $CH_3-CH_2-C(=O)-CH_2-CH_3$

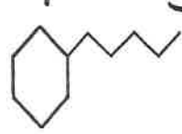
3-pentanone

25. $CH_3-CH_2-CH(CH_2-CH_3)-CH_2-C(=O)OH$

3-ethyl pentanoic acid

26. $CH_3-CH(OH)-CH_2-C(=O)OH$

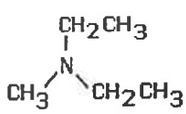
3-hydroxy butanoic acid

29. 

pentyl cyclohexane

27. $CH_3-CH_2-C(=O)-O-CH_2-CH_2-CH_3$

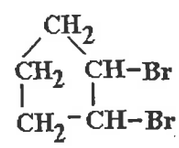
1-propyl propanoate

28. 

N-ethyl-N-methylethanamine

30. $CH_3-C(=O)-O-CH_2-CH_3$

ethyl ethanoate

31. 

1,2-dibromo cyclopentane