# Chem 2C Assignment 7 KEY

Thursday, June 6, 2019 8:41 AM

## 1. (a) 3-isobuty | hexane

correct: 4-ethyl-2methylheptane

## (b) 2,2,4-trimethylpentane

(c) 2-tert-buty1 pentane

correct: 2,2,3-trimethylnexane

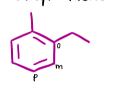
# 2. 1,2-dichloroethane: CI

Note: 
$$CI - C - C - CI = CI - C - C - H = H - C - C - H$$
 (because of free rotation about bond)

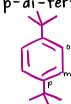
#### 3. (a) 3-hexene

(d) 4-methyl-1-pentyne

$$HC^{1} \equiv C^{2}$$



(b) p-di-tert-butylbenzene



(c) m-di-ethylbenzene

(d) 1-phenyl-2-butene

# 5. CsH120

2-methyl-1-butanol

2,2-dimethyl-1-propanol

Ethers: n-buty1 methy1 ether

sec-butyl methyl ether /

n-propy 1 ethyl ether

isopropyl ethyl ether /o

# 6. C5 H10 O

ketones: 2-pentanone

3-pentanone

# 7. (a) $H_3C \xrightarrow{CH_3} CH_3 \xrightarrow{CI_2, hv} H_3C \xrightarrow{CH_3} CH_2CI$

$$H_3C$$
 $Cl_2, hv$ 
 $H_3C$ 

(c) 
$$H_3C$$
 $CH_3$ 
 $CH_3$ 

# 8. (i) 2-bromoaniline

(ii) cis-1,2-dichlorowclohexane

(iv) 6-aminonexanoic acid