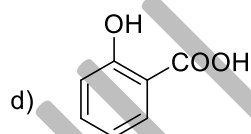
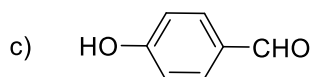
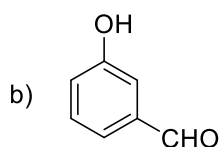
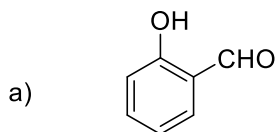


ALCOHOLS, PHENOLS AND ETHERS

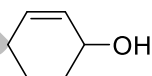
- Which of the following cannot be obtained from a mixture of ethanol and concentrated sulphuric acid, if the composition of the mixture and the reaction conditions are suitably adjusted?
 - C_2H_4
 - CH_3CHO
 - $CH_3CH_2OCH_2CH_3$
 - $CH_3CH_2HSO_4$
- The alcohol that does not give a stable compound on dehydration is
 - ethyl alcohol
 - Methyl alcohol
 - n-propyl alcohol
 - n-butyl alcohol
- What is the major product obtained when phenol is treated with chloroform and aqueous alkali?



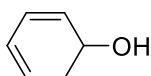
- Reimer-Tiemann reaction involves
 - carbonium ion intermediate
 - carbene intermediate
 - carbonium intermediate
 - free radical intermediate
- Pinacol is
 - 3-methylbutan-2-ol
 - 2,3-dimethyl-2,3-butanediol
 - 2,3-dimethyl-2-propanone
 - none of the above
- The correct order of ease of dehydration of following is



(1)



(2)

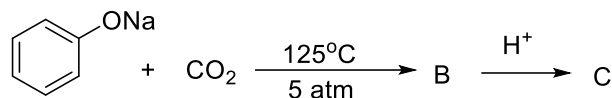


(3)

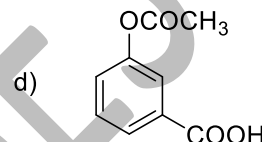
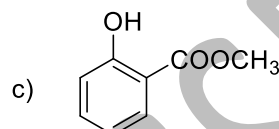
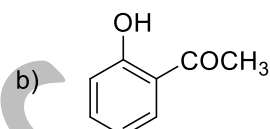
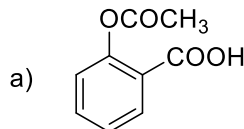
a) $1 > 2 > 3$ b) $3 > 2 > 1$ a) $1 > 3 > 2$ a) $3 > 1 > 2$

- Sodium phenoxide when treated with CO_2 under pressure at $125^\circ C$ yields a product which

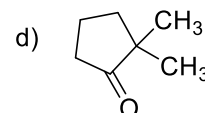
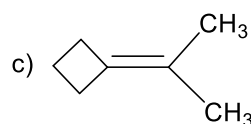
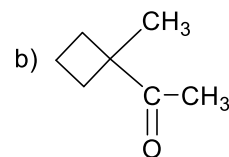
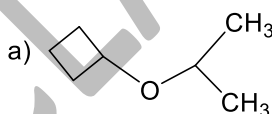
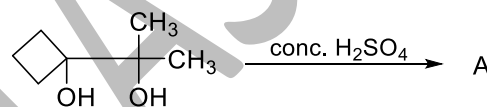
on acetylation produces C



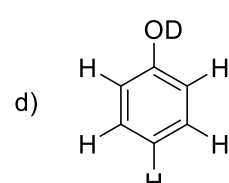
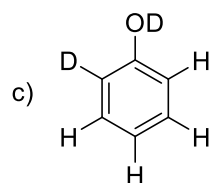
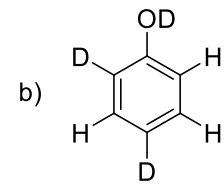
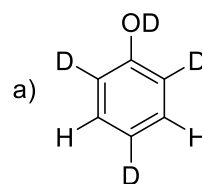
the major product C would be



- Identify the correct product during the following reaction



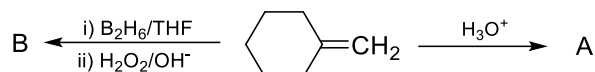
- When phenol is treated with D_2SO_4/D_2O , some of the hydrogens get exchanged. The final product in this exchange reaction is



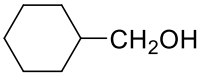
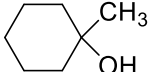
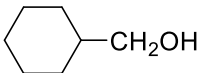
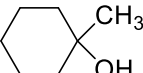
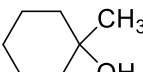
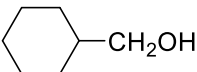
- An organic acid without a carboxylic acid group is

- a) picric acid b) oxalic acid
c) vinegar d) ascorbic acid

11.



A and B respectively are

- a) both 
- b) both 
- c)  and 
- d)  and 

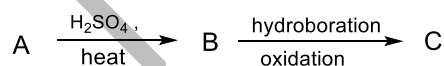
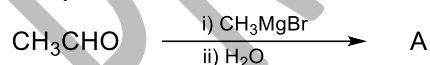
12. to prepare an ether by williamson's synthesis, the reactants needed are

- a) ethyl alcohol and *tert* butyl alcohol
b) sodium ethoxide and *tert* butyl bromide
c) sodium *tert* butoxide and ethylbromide
d) sodium ethoxide and sodium *tert* butoxide

13. which of the following reactions does not yield an ether?

- a) sodium methoxide reacts with dimethyl sulphate
b) sodium ethoxide reacts with bromocyclopropane
c) sodium ethoxide reacts with bromocyclopropane
d) ethanol reacts with CH_2N_2 in presence of HBF_4

14. compound A and C in the following reaction are



- a) identical b) positional isomers
c) functional isomers d) optical isomers

15. which of the following is the most acidic compound among the following

- a) Phenol b) o-cresol
c) p-cresol d) p-nitrophenol

16. Among the following compounds, the most acidic is

- a) p-nitrophenol b) p-hydroxybenzoic acid
c) o-hydroxybenzoic acid d) p-toluic acid

17. Phenol is less acidic than

- a) ethanol b) o-nitrophenol
c) o-methylphenol d) o-methoxyphenol

ANSWER KEY

1.b	2.b	3.a	4.b	5.b	6.b	7.a
8.d	9.a	10.a	11.d	12.c	13.b	14.b