



### **CHEMISTRY**

### **BOOKS - SHARAM PUBLICATION**

## **AROMATIC CARBOXYLIC ACID**



1. The correct order of acidic strength is

A. formic acid Itbenzoic acidItacetic acid

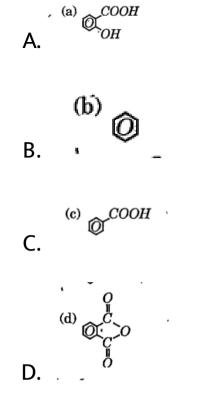
B. formic acid Itacetic acid Itbenzoic acid

#### C. acetic acid ltformic acidltbenzoic acid

D. acetic acid Itbenzoic acid Itformic acid

#### Answer:





#### **Answer:**



**3.** The reagent which does not give acid chloride on treating with a carboxylic acid is

A.  $PCl_5$ 

 $\mathsf{B.}\,Cl_2$ 

 $\mathsf{C}.\,SOCl_2$ 

D.  $PCl_3$ 

#### **Answer:**

4. Which of these does not contain - COOH

#### group?

A. aspirin

B. benzoic acid

C. picric acid

D. salicylic acid

#### Answer:

5. When benzoic acid is treated with  $PCl_5$  at  $100^{\circ}$ , it gives

A. benzoyl chloride

B. o-chlorobenzoic acid

C. p-chloro benzoic acid

D. benzyl chloride

#### Answer:

6. The oxidation of toluene with alk.  $KMnO_4$ 

gives:

A. Benzoic acid

B. benzene

C. benzaldehyde

D. benzylalcohol

Answer:

7. Between benzoic acid and acetic acid which

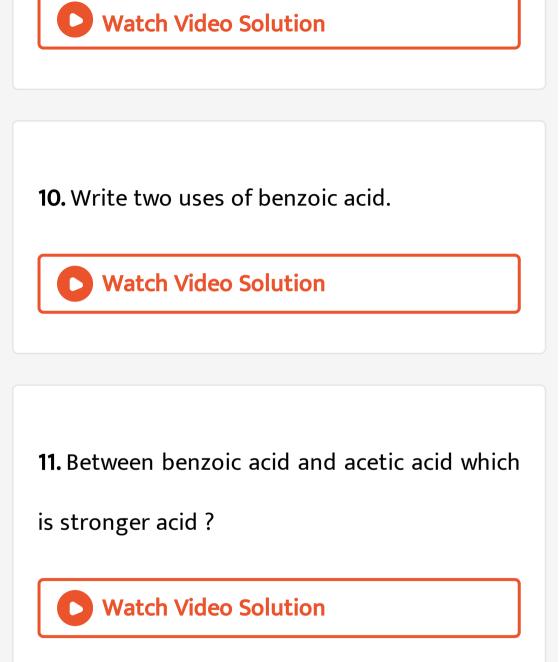
is stronger acid ?

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**8.** Write the structural formula of m-nitro benzoic acid.

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**9.** Write a test for benzoic acid.



12. Fill up the blanks : Toluene on oxidation in

alkaline medium gives......

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13. Fill in the blanks :Benzonitrile on acid

hydrolysis gives ...... as first product .

14. Fill in the blanks:Benzoic acid on

chlorination gives.....

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15. What happens when benzoic acid is treated

with  $SOCl_2$ ?



16. How can you prepare benzoic acid from

Grignard reagent? Give equations only.



17. What product is formed when benzoic acid

is treated with fuming  $H_2SO_4$ ?



**18.** Give an example of Rosenmund reduction. Can formaldehyde be prepared by this method?



**19.** What happens when methyl cyanide is reduced by  $Sncl_2$  in presence of HCI?



**20.** Why boiling point of aldehydes and ketones are higher than those of hydrocarbons of comparable molecular mass?



### 21. Convert of ethyl alcohol into acetaldehyde

is an example of



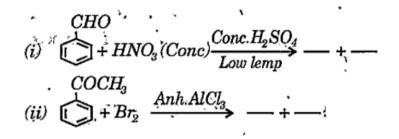
22. What happens when acetone reacts with

semicarbazide?

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#### **23.** What is Clemmensen reduction reaction?

**24.** Complete the reaction.



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**25.** How is benzoic acid prepared from toluene?

26. How is acetic acid prepared from methyl

magnesium bromide?

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27. What happens when acetic acid reacts with

ammonia?

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28. How do you account for acidic nature of

carboxylic acid?



# **29.** Lower aliphatic carboxylic acids are completely soluble in water but solubility decreases with increase of molecule mass. Why?

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**30.** Write a note on Kolbe's reaction.

31. What happens when benzoic acid is treated

with  $Br_2$  and  $FeBr_3$ ?

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32. Why is p-nitrobenzoic acid stronger than

benzoic acid?

33. How does benzoic acid react with

sodalime.

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**34.** How does benzoic acid react with

thionyl chloride



**35.** How does benzoic acid react with

acetic anhydride.

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36. Explain two methods for the preparation of

benzoic acid. How does it react with

ammonia.