



India's Number 1 Education App

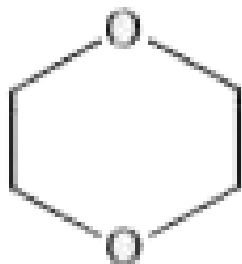


CHEMISTRY

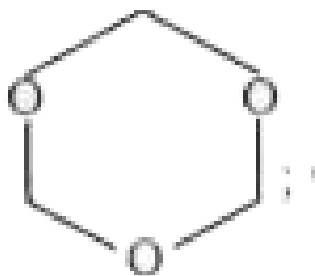
BOOKS - MS CHOUHAN

PRACTICAL ORGANIC CHEMISTRY

Level 1



and



1.

(X)

(Y)

compounds (X) and (Y) can be differentiated by:

A. H_3O^+ , $NaOI$

B. H_3O^+ , then Fehling test

C. H_3O^+ , then Na

D. Both b and c

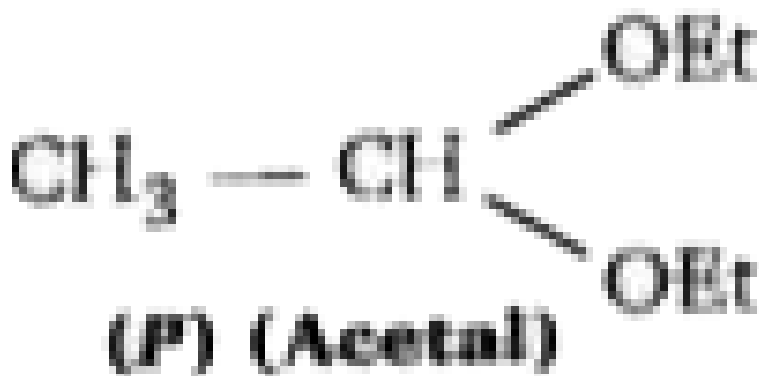
Answer: D



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2.

Compound



and $\text{CH}_3 - \text{CH}_2 - \underset{(Q)}{\text{O}} - \text{CH}_2 - \text{CH}_3$ can

be differentiated by:

A. H_3O^+ , Na

B. H_3O^+ , tollen's test

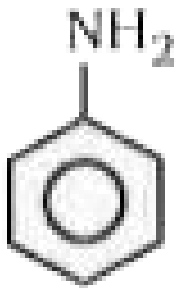
C. H_3O^+ , Fehling test

D. All of these

Answer: D



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and



3. (aniline)

(cyclohexyl amine)

can be

differentiated by

A. Hinsberg test

B. Iso-cyanide test

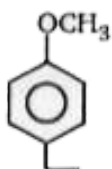
C. NaNO_2 , HCl , then β -Naphthol

D. NaOH

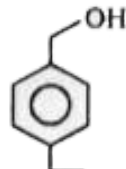
Answer: C



(*p*-ethyl phenol)



(*p*-methyl anisole)



(*p*-ethyl benzyl alcohol)

4.

Above compounds can be differentiated by using the reagent:

A. NaOH, Tollen's reagent $FeCl_3$

B. CrO_3 , Tollen's reagent $FeCl_3$

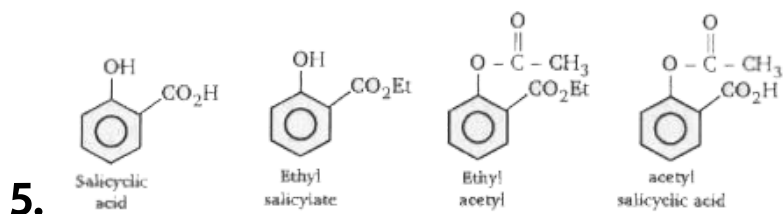
C. Tollen's reagent CrO_3 , $FeCl_3$

D. Na, Tollen's reagent $FeCl_3$

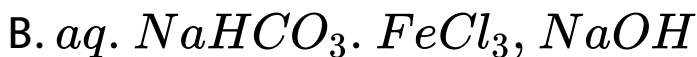
Answer: B



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Above compounds can be differentiated by the salicylate. Which of the following chemical test? (used to decreasing order)

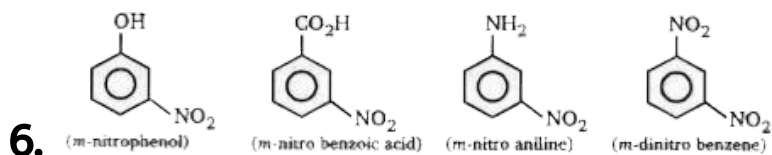


C. $NaOI$, $NaOH$, $NaHCO_3$

D. $NaOH$, Na , $NaHCO_3$

Answer: B

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Above compounds can be differentiated by which of the following chemical test? (used in decreasing order)

A. NaOH , NaHCO_3 , HCl

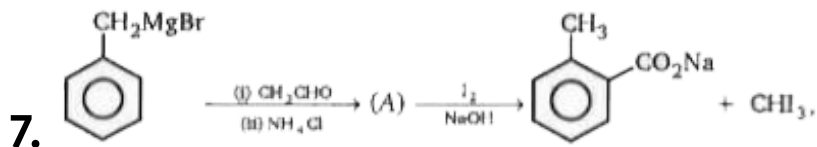
B. HCl , NaOH , NaHCO_3

C. NaHCO_3 , NaOH , HCl

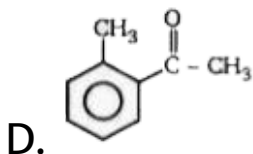
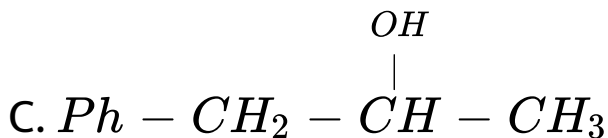
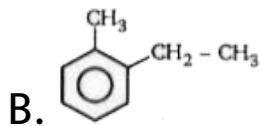
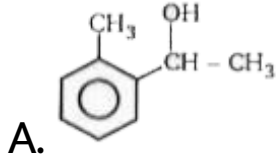
D. NaOH , HCl , NaHCO_3

Answer: C

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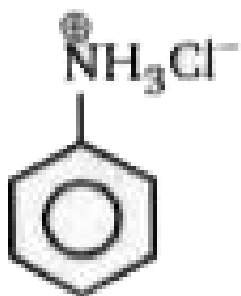
Product (A) in the above reaction is :



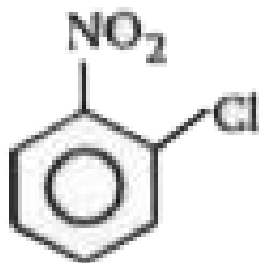
Answer: A



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and



8. (P)

(Q)

Above compounds (P) & (Q) can be differentiated by:

A. amm. AgNO_3

B. NaOH

C. FeCl_3

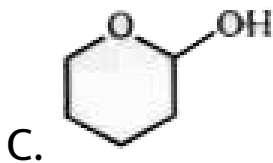
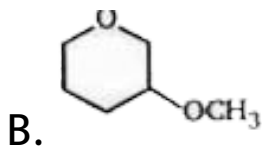
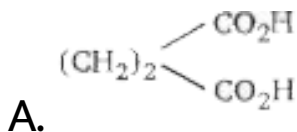
D. Both a and b

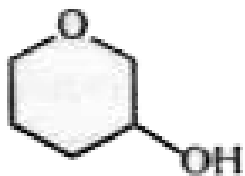
Answer: D



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9. Which of the following compounds give positive Tollen's tests?



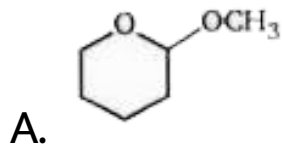


D.

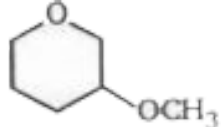
Answer: D

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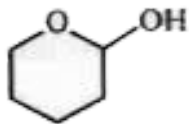
10. Which of the following compounds give positive Tollen's tests?



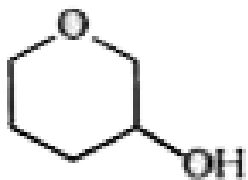
B.



C.



D.



Answer: C



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11. Give a simple test to differentiate cyclohexane and cyclohexene

A. Br_2 / H_2O

B. Bayer's reagent

C. Tollen's reagent

D. Both a and b

Answer: D



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12. Give test to differentiate (Bromobenzene)

Ph-Br and benzyl bromide ($PhCH_2Br$).

A. (i) aq KOH(ii) Na

B. $AgNO_3$

C. $KMnO_4$

D. All these

Answer: D



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13. Give test to differentiate 1,1-dichloroethane and 1,2-dichloroethane:

A. 2,4-DNP then aq. KOH

B. aq. KOH then 2,4-DNP

C. $NaHSO_3$

D. Lucas reagent

Answer: B



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14. Test to differentiate between (CH_3OH)
(methanol)

and $Ph - OH$ is /are:
(Phenol)

A. Litmus test

B. $FeCl_3$

C. Br_2 / H_2O

D. All of these

Answer: D



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15. Acetaldehyde and benzaldehyde can be differentiated by

- A. Fehling test
- B. Iodoform test
- C. Tollen's reagent
- D. Both a and b

Answer: D



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16. Ethylamine and diethylamine cannot be differentiated by

A. Hinsberg test

B. Carbylamine test

C. Iodoform test

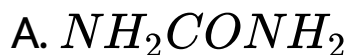
D. Both a and b

Answer: C



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17. Lassaigne's test for the detection of nitrogen will fail in the case of:



Answer: C



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18. Sodium nitroprusside when added to an alkaline solution of sulphide ions produces

A. red

B. blue

C. brown

D. purple

Answer: B



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19. In Kjeldahl's method, the nitrogen presence is estimated as



D. None of these

Answer: B



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20. In Kjeldahl's method of estimation of nitrogen K_2SO_4 acts as:

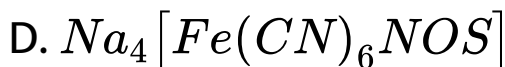
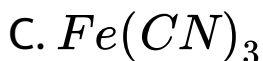
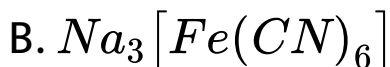
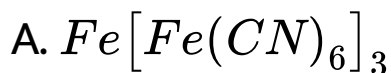
- A. an oxidising agent
- B. catalytic agent
- C. hydrolysing agent
- D. boiling point elevator

Answer: D



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21. The prussian blue colour obtained during the test for nitrogen by Lassaigne's test is due to the formation of



Answer: D



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22. A compound which does not give a positive test in Lassaigne's test for nitrogen is

A. urea

B. hydrazine

C. azobenzene

D. phenyl hydrazine

Answer: B



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23. p-nitrophenol and o-nitrophenol are separated by:

A. distillation

B. steam distillation

C. crystallization

D. fractional crystallization

Answer: A



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24. Which of the following reagent is used for the separation of acetaldehyde from acetophenone?

A. NH_2OH

B. $NaOI$

C. Tollen's reagent

D. $C_6H_5NHNH_2$

Answer: C



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25. The formula of gas is $[CO]_x$. If its vapour density is 70, the value of x will be:

A. 2.5

B. 3

C. 5

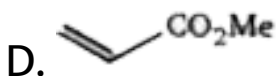
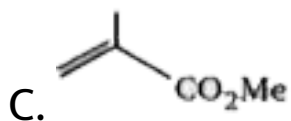
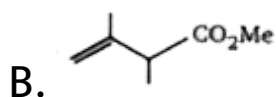
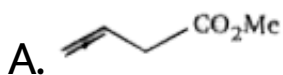
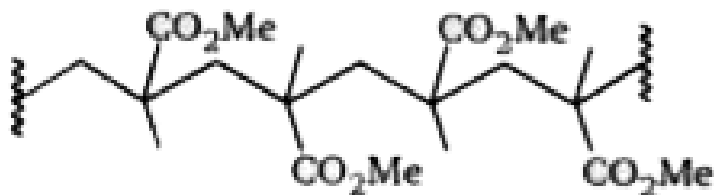
D. 6

Answer: C



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26. The structure of the monomer that would give the following polymer by an addition mechanism is :

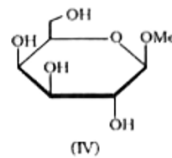
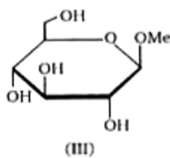
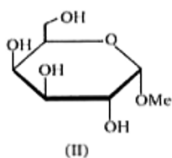
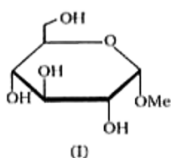


Answer: C



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27. Identify the correct set of stereochemical relationships amongst the following monosaccharides I-IV.



A. I and II are anomers: III and IV are epimers

B. I and II are epimers, III and IV are anomers

C. I and III are anomers, I and II are epimers

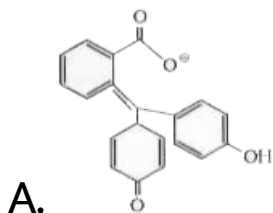
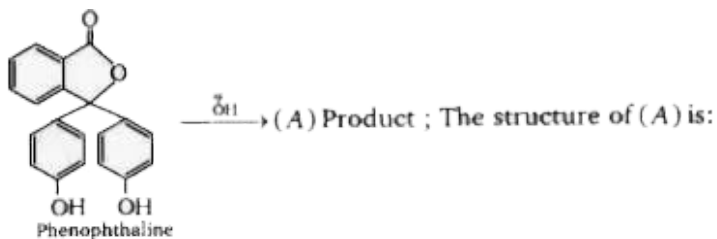
D. I and III are epimers, II and IV are anomers.

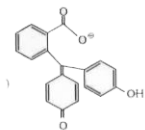
Answer: C



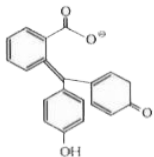
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28. A dye, phenolphthalein is prepared by reacting phenol with phthalic anhydride in acidic medium. It give pink colour in alkaline medium due to extended conjugation I a new complex formed (phthalein- dye test) identify the compled A:





B.



C. _____

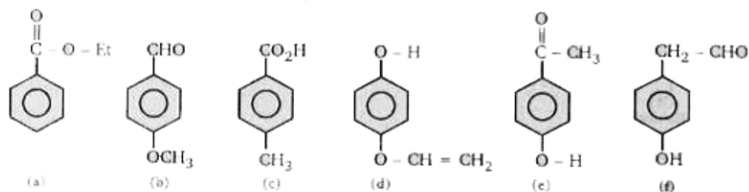
D. None

Answer: B



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Level 2



Which isomer gives positive iodoform test?

A. a

B. b

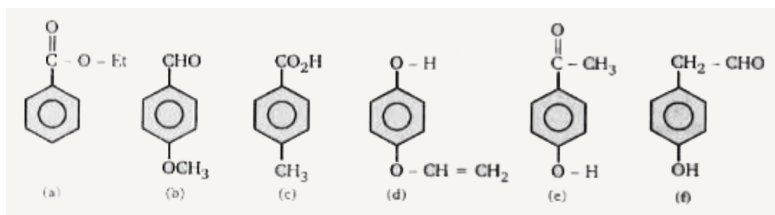
C. c

D. e

Answer: D



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2.

Which isomer gives +ive Tollen's test, also reacts with $FeCl_3$?

A. b

B. f

C. c

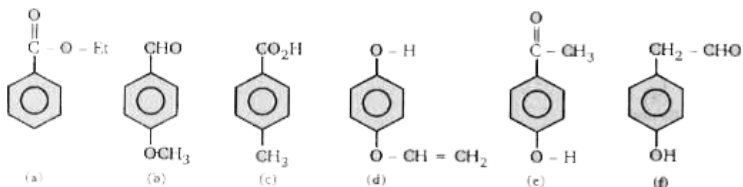
D. d

Answer: B



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3.



Which isomer reacts with $NaHCO_3$?

A. c

B. d

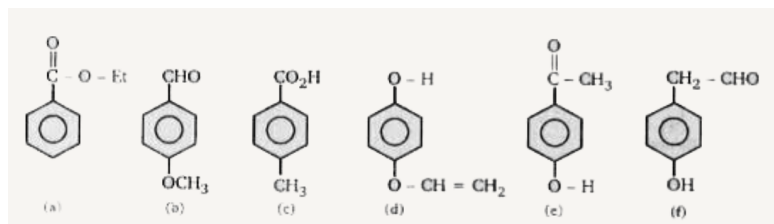
C. e

D. f

Answer: A



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Which isomer on hydrolysis gives 1,4-dihydroxybenzene?

A. a

B. d

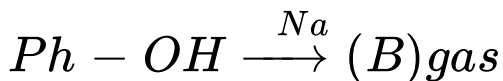
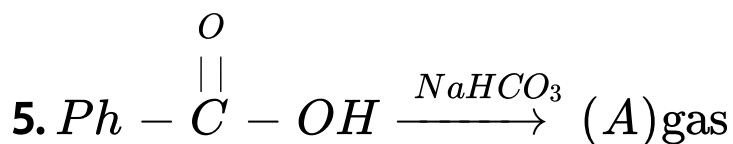
C. e

D. f

Answer: B



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Sum of molecular mass of gas ($A + B = ?$)



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