

STARS ACADEMY LAHORE

Head office: 30 Kashmir Block Allama Iqbal Town Lahore 042-37800293, 0333-1409100, www.starsentrytest.edu.pk

Roll No. of Candidate



Name of Candidate

STARS STARS ENTRY TEST SYSTEM

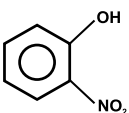
Assignment Code: C8

Session MDCAT

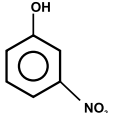
- Formalin contains _____ % alcohol
A) 80
B) 8
C) 37
D) 52
- The compound which gives most stable carbocation during dehydration is
A) $(CH_3)_2CHCH_2OH$
B) $CH_3CH_2CH_2CH_2OH$
C) $(CH_3)_3COH$
D) $CH_3CH(OH)CH_2CH_3$
- Ethanoic acid reacts with PCl_5 to give ethanoyl chloride, HCl and a third compound. What is the third compound
A) H_3PO_3
B) SO_2
C) $POCl_3$
D) $COCl_2$
- Order of esterification of alcohol is
A) $p > s > t$
B) $s > t > p$
C) $t > s > p$
D) $t = s = p$
- Which of the following undergoes easy dehydration
A) 3-Methylbutan-2-ol
B) 2-Methylpropan-2-ol
C) Ethanol
D) 2-Methylbutan-2-ol
- Propane-1-ol and propane -2-ol can be distinguished
A) Oxidation with alkaline $KMnO_4$ followed by reaction with Fehling solution
B) Oxidation with acidic $K_2Cr_2O_7$ followed by reaction with Fehling solution
C) Oxidation by heating with Cu followed by reaction with Fehling solution
D) Oxidation with Conc. H_2SO_4 followed by reaction with Fehling solution
- $CH_3CH_2CH_2OH \xrightarrow{PCl_5} A \xrightarrow{Alc KOH} B$, Here B is:
A) Propyne
B) Propanal
C) Propene
D) Propane
- A mixture of carbonyl and non carbonyl compounds can be separated by using:
A) Water
B) Sodium bisulphite
C) Sodium hydroxide
D) Hydrochloric acid
- The order of acidity of (I) phenol, (II) m – nitrophenol (III) p- nitrophenol (IV) p- methylphenol is :
A) III > II > I > IV
B) I > III > II > IV
C) II > III > I > IV
D) IV > I > III > III
- The compound which gives most stable carbocation during dehydration is ;
A) $(CH_3)_2CHCH_2OH$
B) $CH_3CH_2CH_2CH_2OH$
C) $(CH_3)_3COH$
D) $CH_3(CHOH)CH_2CH_3$
- Wolf-Kishner reduction is the reduction of:
A) Carbonyl compounds into hydrocarbons
B) Alkyl halide into alkane
C) Carboxyl compound into alcohol
D) Alcohol to alkane
- Phenol is less acidic than
A) Acetic acid
B) ethanol
C) p-methoxy phenol
D) methanol
- The oxidation of ethyl alcohol may produce
A) $CH_2 = CH_2$ and CH_3CHO
B) CH_3CHO and CH_3COOH
C) $CH_2 = CHCOOH$ and CH_2CHO
D) CH_3-CH_3 and $CH_2 = CH_2$
- Which of the following does not give iodoform test?
A) CH_3CH_2OH
B) $CH_3CH_2CH_2CH_2OH$
C) $(CH_3)_2CHOH$
D) CH_3COCH_3

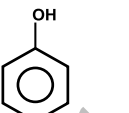
15. **HBr reacts fastest with**
 A) 2-methylpropane-2-ol
 B) Propane-2-ol
 C) Propane-1-ol
 D) 2-methylpropane-1-ol
16. **The only alcohol that can be prepared by the indirect hydration of an ethene is:**
 A) Ethyl alcohol
 B) Propyl alcohol
 C) Isobutyl alcohol
 D) Methyl alcohol
17. **Which one of the following compounds will be most readily attacked by an electrophile?**
 A) Phenol
 B) Toluene
 C) Benzene
 D) Chlorobenzene
18. **Which of the following is resistant to oxidation under normal condition**
 A) Methyl alcohol
 B) Acetaldehyde
 C) Ethyl alcohol
 D) Acetone
19. **Which of the following will have the highest boiling point?**
 A) Methanal
 B) Propanal
 C) Ethanal
 D) 2-hexanone
20. **Fehling's solution is**
 A) An alkaline solution containing silver nitrate complex
 B) An alkaline solution containing a cupric tartrate complex
 C) An alkaline solution containing a cupric citrate complex
 D) An alkaline solution of mercuric sulphate
21. **Consider the following reaction and mention the type of reaction**

$$2\text{HCHO} + \text{NaOH} \rightarrow \text{CH}_3\text{OH} + \text{HCOONa}$$

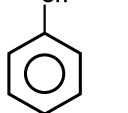
 A) Addition reaction
 B) Elimination reaction
 C) Disproportionation reaction
 D) Free radical reaction
22. **Sodium nitroprusside is used to identify**
 A) Formaldehyde
 B) Ethyl alcohol
 C) Acetone
 D) Phenol
23. **Among the given compounds the most susceptible nucleophilic attack of carbonyl group is**
 A) CH_3COCl
 B) $\text{CH}_3\text{COOCH}_3$
 C) CH_3CHO
 D) $\text{CH}_3\text{COOCOCH}_3$
24. **Which of the following reagents will react with both aldehydes and ketones?**
 A) Grignard reagent
 B) Fehling's reagent
 C) Tollen's reagent
 D) Benedict's reagent
25. **Which one of the following is the strongest acid?**
- 

A)



C)
- 

B)



D)
26. **Which one of the following compounds is not derivative of NH_3 :**
 A) Aniline
 B) Phenyl hydrazine
 C) Hydrazine
 D) Picric acid
27. **Which of the following will give yellow precipitate with I_2/NaOH ?**
 A) $\text{C}_2\text{H}_5\text{CONH}_2$
 B) $\text{CH}_3\text{COOCOCH}_3$
 C) $\text{NH}_2\text{-CONH}_2$
 D) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$
28. **Identify Y in the reactions, $\text{CH}_3\text{CH}=\text{CHCHO} \xrightarrow{\text{NaBH}_4} \text{X} \xrightarrow{\text{HCl}/\text{ZnCl}_2} \text{Y}$**
 A) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{COOH}$
 B) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{Cl}$
 C) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{OH}$
 D) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{CHO}$
29. **$\text{C}_4\text{H}_8\text{O}$ represents how many isomeric forms**
 A) 2
 B) 4
 C) 3
 D) 5
30. **Product in Williamson synthesis**
 A) NaX
 C) H_2 gas

B) $C_2H_5OC_2H_5$

D) All of these

TESTS ARE THE BEST FOR YOUR TEST

Head Office Iqbal Town Lahore