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TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

O-CHEMISTRY

DPP

DAILY PRACTICE PROBLEMS

DPP NO. 1

DPP No. : 1

1. On heating calcium propionate, the product formed is
(1) 3-Pentanone (2) 2-Pentanone (3) 3-Methyl-2-butanone (4) Propanone

2. A mixed salt of calcium acetate formate on dry distillation gives
(1) ethanal (2) methanal (3) propanone (4) All the three above.

3. Which gives nucleophilic addition most easily ?
(1) CH_3CHO (2) CH_3CH_2CHO (3) $CH_3-\underset{CH_3}{\underset{|}{CH}}-CHO$ (4) HCHO

4. Hydrolysis product which is formed by reaction between ketone and grignard reagent will be :
(1) $(CH_3)_3CHOH$ (2) C_2H_5OH (3) CH_3OH (4) None of these

5. Base-catalysed aldol condensation will occur with
(1) Benzaldehyde (2) Propionaldehyde
(3) Formaldehyde (4) 2, 2-Dimethylpropionaldehyde.

6. $Ph-CHO + CH_3-CHO \xrightarrow{\overset{\ominus}{O}H/\Delta}$ Product is:
(1) Ph –CH =CH– CHO (2) $Ph-CH_2-\underset{OH}{\underset{|}{CH}}-CHO$
(3) $CH_3-CH_2-\underset{OH}{\underset{|}{CH}}-Ph$ (4) $Ph-\underset{OH}{\underset{|}{CH}}-CH_2-Ph$

7. Benzaldehyde is converted to benzyl alcohol by :
(1) Wurtz reaction (2) Cannizzaro reaction (3) Fittig reaction (4) Wurtz Fittig reaction

8. Oxidation of compound X gives a product which reacts with phenylhydrazine but does not give a silver mirror test. Possible structure for X is
(1) CH_3CHO (2) CH_3CH_2OH (3) $(CH_3)_2CHOH$ (4) $CH_3CH_2CH_2OH$

9. When $C_6H_5NH_2$ heated with C_6H_5CHO the product is :-
(1) Schiff's base (2) Benzoin (3) Azoxy benzene (4) Unsaturated acid

10. Fehiling's solution is
(1) Acidified $CuSO_4$ solution
(2) Ammonical $CuSO_4$ solution
(3) Copper sulphate + sodium hydroxide + Rochelle salt
(4) Copper acetate + sodium citrate.

Answer Key

1.	(1)	**2.**	(1)	**3.**	(4)	**4.**	(1)	**5.**	(2)	**6.**	(1)	**7.**	(2)
8.	(3)	**9.**	(1)	**10.**	(3)								