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TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

ORG. CHEMISTRY

DPP

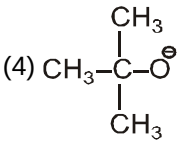
DAILY PRACTICE PROBLEMS

DPP NO. 1

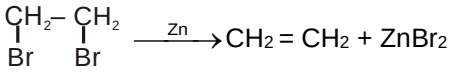
CHEMISTRY: HALOALKANES AND HALOARENES

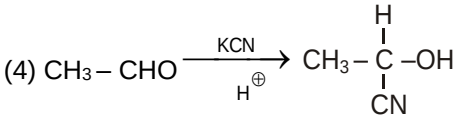
DPP No. : 1

1. Which one of the following has maximum nucleophilicity :

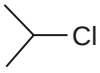
(1) $\overset{\ominus}{C}H_3$ (2) $\overset{\ominus}{N}H_2$ (3) $CH_3O^{\ominus}$ (4) 

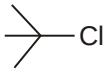
2. Which of the following reaction is a substitution reaction ?

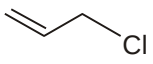
(1) $CH_2 = CH_2 \xrightarrow{Ni/H_2} CH_3–CH_3$ (2) 

(3) $CH_3 – I + \overset{\ominus}{O}H \longrightarrow CH_3OH + I^{\ominus}$ (4) 

3. Correct order of rate of solvolysis of the following alkyl chlorides in 50% aqueous ethanol at 44.6°C is :

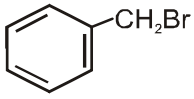
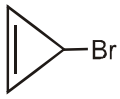
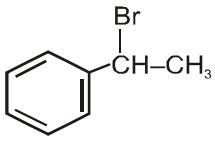
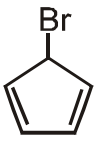
 I

 II

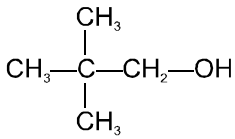
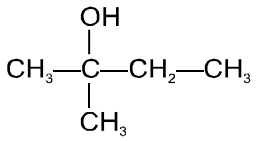
 III

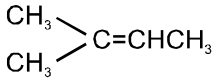
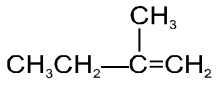
(1) III > II > I (2) III > I > II (3) I > III > II (4) I > II > III

4. Which of the following will not give precipitate with aq. $AgNO_3$?

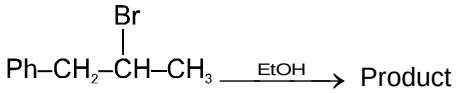
(1)  (2)  (3)  (4) 

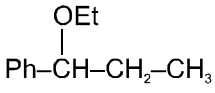
5. Neopentyl bromide is allowed to react with aquous acetone. The major product formed in the reaction is:

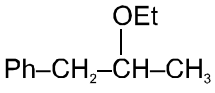
(1)  (2) 

(3)  (4) 

6. What will be the major product of the following reaction ?



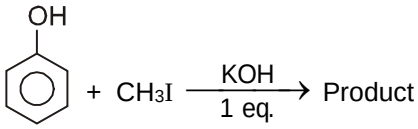
(1) 

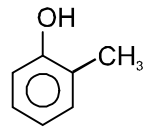
(2) 

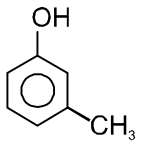
(3) Ph–CH=CH–CH_3

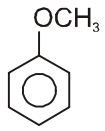
(4) Ph–CH_2–CH=CH_2

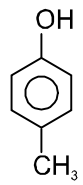
7. What is the final product of the given reaction ?



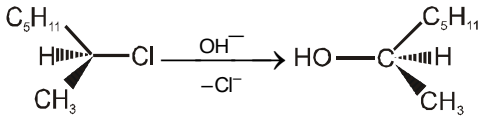
(1) 

(2) 

(3) 

(4) 

8. The reaction given is an example of :



(1) S_N1 (2) S_N2 (3) E1 (4) E2

9. Reaction of methyl bromide with an alcoholic solution of silver cyanide predominantly gives :

(1) Acetonitrile (2) Methyl isocyanide (3) Methyl isocyanate (4) Methyl isothiocyanate

10. Which amongst the following reactions of alkyl halides produces isonitrile as a major product?

(1) R – X + HCN →

(2) R – X + AgCN →

(3) R – X +KCN →

(4) R – X + NaCN $\xrightarrow[C_2H_5OH]{H_2O}$

Answer Key

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