

## NAT I Engineering Chemistry

Sr	Questions	Answers Choice
1	The reaction/method that does not give an alkane is	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halide.
2	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of $\text{CH}_2\text{Cl}_2$ B. Wurtz reaction C. Liquification of natural gas D. None of these
3	The addition of HBr is easiest with	A. $\text{CH}_2 = \text{CHCl}$ B. $\text{ClCH} = \text{CHCl}$ C. $\text{CH}_3 - \text{CH} = \text{CH}_2$ D. $(\text{CH}_3)_2\text{C} = \text{CH}_2$
4	In Friedel-Craft's alkylation besides $\text{AlCl}_3$ the other reactants are	A. $\text{C}_6\text{H}_6 + \text{NH}_3$ B. $\text{C}_6\text{H}_6 + \text{CH}_4$ C. $\text{C}_6\text{H}_6 + \text{CH}_3\text{Cl}$ D. $\text{C}_6\text{H}_6 + \text{CH}_3\text{COCl}$
5	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysis
6	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
7	The IUPAC name of the compound having the formula $(\text{CH}_3)_3\text{C} - \text{CH} = \text{CH}_2$ is	A. 1, 1 -Dimethyl-3-butene B. 1, 1, 1-Trimethyl-3-propene C. 3,3,-Dimethyl-1-butene D. 3,3,3-Trimethyl-1-propene
8	Which of the following substances is used as an antiknock compound?	A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate
9	The order of reactivity of halogens in aliphatic substitution reactions is	A. $\text{Br}_2 > \text{Cl}_2 > \text{F}_2$ B. $\text{Cl}_2 > \text{Br}_2 > \text{F}_2$ C. $\text{Cl}_2 > \text{Br}_2$ D. $\text{F}_2 > \text{Br}_2 > \text{Cl}_2$
10	The essential component of organic compound is	A. O B. C C. P D. N