

Multiple Choice Questions

18. Arrange the following in decreasing order of their boiling points.
 (A) n-butane (B) 2-methylbutane
 (C) n-pentane (D) 2,2-dimethylpropane
 (a) $A > B > C > D$ (b) $B > C > D > A$
 (c) $D > C > B > A$ (d) $C > B > D > A$
19. Arrange the halogens F_2 , Cl_2 , Br_2 , I_2 , in order of their increasing reactivity with alkanes.
 (a) $I_2 < Br_2 < Cl_2 < F_2$ (b) $Br_2 < Cl_2 < F_2 < I_2$
 (c) $F_2 < Cl_2 < Br_2 < I_2$ (d) $F_2 < I_2 < Cl_2 < Br_2$
20. An alkene having molecular formula C_7H_{14} was subjected to ozonolysis in the presence of zinc dust. An equimolar amount of the following two compounds was obtained



The IUPAC name of the alkene is

- (a) 3,4-dimethyl-3-pentene (b) 3,4-dimethyl-2-pentene
 (c) 2,3-dimethyl-3-pentene (d) 2,3-dimethyl-2-pentene
21. Which of the following reactions of methane is incomplete combustion?
- (a) $2\text{CH}_4 + \text{O}_2 \xrightarrow{\text{Cu}/523\text{K}/100\text{atm}} 2\text{CH}_3\text{OH}$
 (b) $\text{CH}_4 + \text{O}_2 \xrightarrow{\text{Mn}_2\text{O}_3} \text{HCHO} + \text{H}_2\text{O}$
 (c) $\text{CH}_4 + \text{O}_2 \rightarrow \text{C(s)} + 2\text{H}_2\text{O(g)}$
 (d) $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2\text{(g)} + 2\text{H}_2\text{O(l)}$
22. The correct IUPAC name of following alkane is



- (a) 3,6-Diethyl-2-methyloctane
 (b) 5-Isopropyl-3-ethyloctane
 (c) 3-Ethyl-5-isopropyloctane
 (d) 3-Isopropyl-6-ethyloctane

23. Arrange the following alkyl halides in decreasing order of the rate of β -elimination reaction with alcoholic KOH.



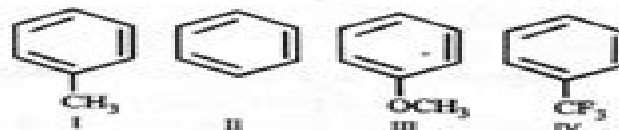
- (B) $\text{CH}_3-\text{CH}_2-\text{Br}$
 (C) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{Br}$
 (a) $A > B > C$ (b) $C > B > A$
 (c) $B > C > A$ (d) $A > C > B$

24. The addition of HBr to 1-butene gives a mixture of products A, B and C



The mixture consists of

- (a) A and B as major and C as minor products
 (b) B as major, A and C as minor products
 (c) B as minor, A and C as major products
 (d) A and B as minor and C as major products
25. Among the following compounds, the decreasing order of reactivity towards electrophilic substitution is



- (a) $\text{III} > \text{I} > \text{II} > \text{IV}$ (b) $\text{IV} > \text{I} > \text{II} > \text{III}$
 (c) $\text{I} > \text{II} > \text{III} > \text{IV}$ (d) $\text{II} > \text{I} > \text{III} > \text{IV}$



Exercise-2

CONCEPTUAL MCQs

1. Successive alkanes differ by
 (a) CH_2 (b) CH
 (c) CH_3 (d) C_2H_4
2. An alkyne has the general formula
 (a) C_nH_{2n} (b) $\text{C}_n\text{H}_{2n+2}$
 (c) $\text{C}_n\text{H}_{2n-2}$ (d) $\text{C}_n\text{H}_{2n+1}$
3. Which of the following is not a mixture of hydrocarbons?
 (a) Candle wax (b) Kerosene
 (c) Vegetable oil (d) Paraffin oil
4. When petroleum is heated gradually, the first batch of vapours evolved will be rich in
 (a) kerosene (b) petroleum ether
 (c) diesel (d) lubricating oil
5. The order of appearance of the following with rising temperature during the refining of crude oil is
 (a) kerosene oil, gasoline, diesel
 (b) diesel, gasoline, kerosene oil
 (c) gasoline, diesel, kerosene oil
 (d) gasoline, kerosene oil, diesel

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Sebastian Brünink

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water $\text{H}^+ \text{aq} + \text{OH}^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l}$

2 o l the spectator ions in koh aq and hno 3 aq are k aq and no 3 aq how to identify and list the

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web the ag aq and cl aq ions become agcl s but the na aq ions and the no 3 aq ions stay as na aq ions and no 3 aq ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

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web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be

$2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + 2\text{Cl}^- \text{aq} + 2\text{S} \rightarrow 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + 2\text{Cl}^- \text{aq} + 2\text{S}$ these spectator ions are not actively involved in the reaction the existence of spectator ions affects the Debye length