



CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 34

Example

1. Ethylidene chloride is a/an

A. Gem-dihalide

B. Allylic halide

C. Vinylic halide

D. Vic-dihalide

Answer: A



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2. Which of the following will not lead to the formation of an alkyl halide?

A. 

B. 

C. 

D. 

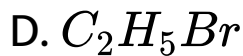
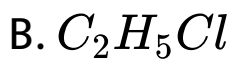
Answer: D



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3. Which one of the following is liquid at room temperature?

A. CH_3Cl

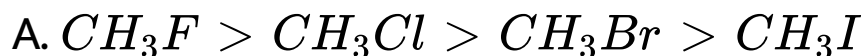


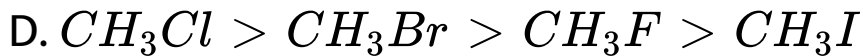
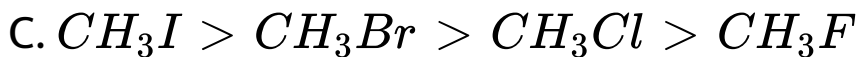
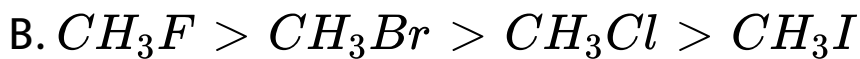
Answer: D



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4. The correct order of boiling points of alkyl halides is



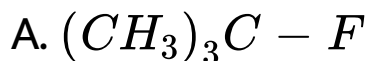


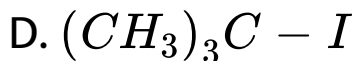
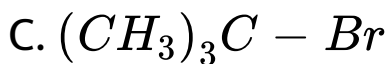
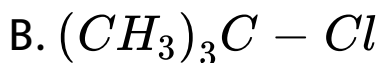
Answer: C



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5. Which of the following alkyl halide will undergo S_N1 reaction is

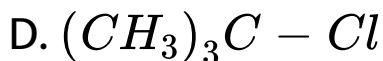
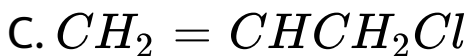
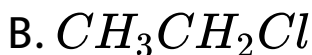
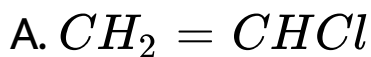




Answer: D

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6. The compound which is least reactive among the following in a nucleophilic substitution reaction is



Answer: A



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7. Which of the following statement(s) is/are incorrect regarding S_N1 reaction?

I) Rearrangement is possible.

II) Proceeds with complete inversion of configuration.

III) Rate depends on polarity of solvent.

IV) The strength of the nucleophile is important in rate determining step.

A. II,IV only

B. I, II, IV only

C. III only

D. I, II only

Answer: A



8. Which of the following molecules contain a chiral centre?

A. 2-chloropropan-2-ol

B. 1-chlorobutane

C. 2-chloropropane

D. 2-chlorobutane

Answer: D



9. Two enantiomers differ with respect to

A. Melting point

B. Refractive index

C. Direction of rotation of plane polarised
light

D. Solubility in achiral solvents

Answer: C



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10. The correct statement regarding the transition state of a S_N2 reaction in alkyl halides

A. Lower in energy than the starting materials

B. Involves both the nucleophile and leaving group

C. Closely resembles a carbonium ion intermediate

D. The carbon where substitution takes place is sp^3 hybridised

Answer: B



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11. Nucleophilic substitution reaction of optically active halide, PIC is accompanied by

A. Inversion of configuration

B. Retention of configuration

C. Racemisation

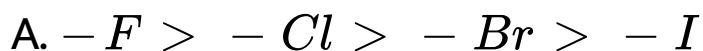
D. Both (1) and (3)

Answer: C



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12. The correct order of ease of elimination of following groups in the E2 reaction is



C. $-I > -Br > -Cl > -F$

D. $-F > -Cl > -I > -Br >$

Answer: C



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