

CHEMISTRY-12	Chapter # 10 (Complete) Test: B-1		
	Name:	Class:	ID:
Date: / /	Marks	30	Marks Obtained:
Time Allowed: 60 Min.	Total:		

Maximum Marks: 06 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- The reactivity order of alkyl halides for a particular alkyl group is?
 - Fluoride > Chloride > Bromide > Iodide
 - Chloride > Bromide > Fluoride > Iodide
 - Iodide > Bromide > Fluoride > Chloride
 - Bromide > Iodide > Chloride > Fluoride
- For which mechanisms, the first step involved is the same:
 - E1 and E2
 - E2 and S_N2
 - S_N1 and E2
 - E1 and S_N1
- Cyanogen chloride reacts with ethyl magnesium bromide to form:
 - CH₃CH₂Cl
 - CH₃CH₂Br
 - C₄H₁₀
 - CH₃CH₂CN
- 2-Chloro-3-methylbutane is a _____ alkyl halide.
 - Primary
 - Secondary
 - Tertiary
 - All
- The bond energy of C-Cl bond is:
 - 467 kJ mol⁻¹
 - 413 kJ mol⁻¹
 - 346 kJ mol⁻¹
 - 290 kJ mol⁻¹
- Which one is a good leaving group?
 - $\bar{O}H$
 - $\bar{N}H_2$
 - $\bar{O}R$
 - Cl⁻

Maximum Marks: 24 **(SUBJECTIVE TYPE)** Time Allowed: 50 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (16)
- What are primary and tertiary alkyl halides. Give one example each.
 - What is nucleophilic substitution reaction? Give example.
 - Define leaving group. Give one example.
 - Give mechanism of E₁ reactions.
 - Give reaction of ethyl chloride with sodium metal.
 - What are Grignard reagents? How are they prepared?
 - How does Grignard reagent react with CO₂?
 - How can you convert CH₃-CH₂-Br into CH₃-CH₂-CH₂-CH₂-OH?

SECTION-II

NOTE: Attempt All Questions: (08)

Q.3: Define alkyl halides. Give three methods to prepare them from alcohols.

Q.4: How does ethyl magnesium bromide react with the following?

- Methanal
- Ethanal
- Propanone
- Water