21. Alkyl halides are considered to be very reactive compounds towards nucleophile because

A. they have an electrophilic carbon
B. they have an electrophilic carbon & a good leaving group
C. they have an electrophilic carbon & a bad leaving group
D. they have a nucleophilic carbon & a good leaving group

Answer: Option **B**

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22. Which one of the following species is not an electrophile?

A. NH3
B. Br+
C. H+
D. BF3

Answer: Option **A**

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23. Which one of the following reactants will be required to form straight chain alcohol by using Grignard reagent

A. formaldehyde
B. ketone
C. ethylene epoxide
D. both a & c

Answer: Option **D**

---

24. Which one of the following alcohols will be formed when ethyl magnesium bromide reacts with acetone?

A. primary alcohol
B. secondary alcohol
C. tertiary alcohol
D. dihydric alcohol

Answer: Option **C**

---

25. Which one of the following molecules does not form alcohol when reacts with Grignard reagent?

A. formaldehyde
B. acetaldehyde
C. propanone
D. carbondioxide

Answer: Option **D**

---

26. In primary alkyl halides the halogen atom is attached to a carbon which is further attached to how many carbon atoms

A. two
B. three
C. one
D. four

Answer: Option **C**

---

27. Ethylene epoxide treated with Grignards reagent followed by acid hydrolysis yield

A. primary alcohol
B. secondary alcohol
C. tertiary alcohol
D. dihydric alcohol

Answer: Option **A**

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28. The best method of preparation of alkyl halides is a reaction of alcohol with

A. Zn / HCI
B. SOCl2 / Pyridine
C. PCI3
D. PCI5

Answer: Option **B**

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29. Alkyl halides undergo a type of reaction

A. Nucleophilic substitution
B. Nucleophilic addition
C. Elimination
D. both a & c

Answer: Option **D**

---

30. 50% inversion of configuration of molecules take place in a

A. E1 - reaction

B. E2 - reaction

C. SN1 - reaction

D. SN2 - reaction

Answer: Option c