

21. In Friedel Craft Alkylation A?C?3 is used to generate
- A. Strong nucleophile B. Weak nucleophile
C. Strong electrophile D. Weak electrophile

Answer: Option C

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22. Acetophenone is a
- A. Ether B. Ketone
C. Aldehyde D. Ester

Answer: Option B

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23. Reacting bromine with benzene in the presence of sunlight will result in
- A. The rupturing of benzene ring B. Substitution reaction
C. Addition reaction D. No-reaction

Answer: Option C

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24. Benzene does not undergo
- A. Substitution reaction B. Addition reaction
C. Polymerization reactions D. Oxidation reactions

Answer: Option C

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25. During sulphonation of benzene H₂SO₄ generates the electrophile
- A. HSO₄⁻ B. SO₂
C. SO₃ D. H⁺

Answer: Option C

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26. Nitronium ion is

- A. NO_3 B. NO
C. NO_2^- D. NO_2^+

Answer: Option D

27. Which compound will readily undergo sulphonation?

- A. Benzene B. Nitro benzene
C. Toluene D. Chlorobenzene

Answer: Option C

28. Benzene is heated in air with V_2O_5 at 450°C it undergoes

- A. Substitution reaction B. Addition reaction
C. Elimination reaction D. Oxidation reaction

Answer: Option D

29. Which one of the following statement is not correct about benzene?

- A. On hydrogenation 208 KJ/mole is liberated B. C-H bond length in benzene is 1.09 \AA ?
C. Molecular mass of benzene is 78.108 D. Resonance energy of benzene is 150.5 K Cal/mole

Answer: Option D

30. The preparation of benzene from acetylene can also be said as

- A. Oxidation B. Polymerization
C. Dehydration D. Condensation

Answer: Option B