

B.sc 2nd Semester Old Course (Arrear) General Chemistry questions

Department of Chemistry

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Full marks-16

Please mention your Name, Roll number and Registration number.

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MULTIPLE CHOICE QUESTIONS:

1x16=16

1. The compound with the highest boiling point is-
 - A. n-hexane
 - B. n-pentane
 - C. 2,2-dimethylpropane
 - D. 2-methylbutane
2. Bromination of alkene as compared to chlorination proceeds-
 - A. at a slower rate
 - B. at a faster rate
 - C. with equal rates
 - D. with equal or different rate depending upon the temperature
3. Number of bonds in benzene is-
 - A. 6 sigma and 3 pi
 - B. 12 sigma and 3 pi
 - C. 3 sigma and 12 pi
 - D. 6 sigma and 6 pi
4. The alkyl halide that undergoes SN1 reaction more readily is-
 - A. Ethyl bromide
 - B. Iso-propyl bromide
 - C. Vinyl bromide
 - D. t-butyl bromide
5. The reaction of 1-chlorobutane with alcoholic KOH gives-
 - A. But-1-ene
 - B. But-2-ene
 - C. Butan-2-ol
 - D. Butanol

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6. Which of the following is path function?
- A. Temperature
 - B. Volume
 - C. Heat
 - D. Pressure
7. During the adiabatic process,
- A. Pressure is maintained constant
 - B. Gas is isothermally expanded
 - C. There is a perfect heat insulation
 - D. The system changes heat with surroundings
8. Temperature and work are
- A. Extensive properties
 - B. Intensive properties
 - C. Intensive and extensive properties
 - D. Extensive and intensive properties
9. Alkyl halides react with dialkyl copper reagents to give
- A. Alkenes
 - B. Alkyl copper halides
 - C. Alkanes
 - D. Alkenyl halides
10. Based on the first law of thermodynamics, which one of the following is correct?
- A. For an isothermal process, $q=+w$
 - B. For an isochoric process, $\Delta U=-q$
 - C. For an adiabatic process, $\Delta U=-w$
 - D. For a cyclic reaction, $q=-w$
11. The positive value of ΔS indicates that
- A. The system becomes less disordered
 - B. The system becomes more disordered
 - C. The system is in equilibrium position
 - D. The system tends to reach at equilibrium position

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12. The second law of thermodynamic says that in a cyclic process

- A. Work cannot be converted into heat
- B. Heat cannot be converted into work
- C. Work cannot be completely converted into heat
- D. Heat cannot be completely converted into work

13. Isopropyl bromide on Wurtz reaction gives

- A. Hexane
- B. Propane
- C. 2,3-dimethylbutane
- D. Neohaxane

14. Which of the following has the highest melting point?

- A. o-xylene
- B. m-xylene
- C. p-xylene
- D. toluene

15. The IUPAC name of neopentane is

- A. 2,2-dimethylpropane
- B. 2-methylpropane
- C. 2,2-dimethylbutane
- D. 2-methylbutane

16. Arrange the following free radicals in order of decreasing stability

Methyl(I), Vinyl(II), Allyl(III), Benzyl(IV)

- A. I > II > III > IV
- B. III > II > I > IV
- C. II > I > IV > III
- D. IV > III > I > II