

## Fsc Part 1 Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A 0.01 M solution of a strong acid has a pH of	A. 3 B. 2 C. 5 D. 4
2	Alkanes react with halogens via.	A. Electrophilic substitution B. Free radical substitution C. Nucleophilic addition D. Electrophilic addition
3	The quantum number values for the fourth electron of Be atom are.	A. $1,0,0$ B. $2,0,0$ C. $2,1,0$ D. $1,1,1$
4	Which of the following reagent is typically used for the acid catalyzed hydration of alkenes to form alcohols.	A. Dilute $\text{H}_2\text{SO}_4$ B. $\text{H}_2/\text{Ni}$ C. $\text{O}_3$ followed by $\text{Zn}/\text{H}_2\text{O}$ D. $\text{Br}_2$ in $\text{CCl}_4$
5	The oxidation number of sulfur in $\text{H}_2\text{SO}_4$ is	A. +2 B. +4 C. +6 D. +8
6	specific heat capacity is amount of heat needed to raise temp of	A. 1 mole B. 1 gram C. 1 kg D. 100 grams
7	On a Boltzmann distribution curve, the activation energy is represented by	A. The height of the peak B. The area under the entire curve C. A vertical line drawn at a specific kinetic energy value D. The difference between the peak and the X axis
8	Noble gases are present in 18 group also called	A. $\text{I A}$ B. $\text{II B}$ C. $\text{VIII A}$ D. $\text{VIII B}$
9	Consider a reaction with $\Delta H > 0$ and $\Delta S < 0$ this reaction will be	A. Spontaneous at all temperatures B. Non spontaneous at all temperature C. Spontaneous only at high temperatures D. Spontaneous only at low temperature
10	Which of the following is an aromatic hydrocarbon	A. Ethene B. Benzene C. Methane D. Cyclohexane
11	Which of the following species has unpaired electrons in antibonding molecular orbitals.	A. $\text{O}_2^{2+}$ B. $\text{N}^{2-}$ C. $\text{B}_2$ D. $\text{F}_2$
12	At equilibrium in a closed system, which two processes occur at the same rate.	A. Melting and freezing B. Evaporation and boiling C. Evaporation and condensation D. Sublimation and condensation
13	Which of the following has maximum mass	A. 2 moles of $\text{P}$ B. 5 moles of $\text{H}_2\text{O}$ C. 2 mole of $\text{Na}_2\text{CO}_3$ D. 1 mole of glucose
14	Electrons in a galvanic cell flow from	A. Anode to cathode B. Cathode to anode C. Salt bridge to cathode

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15 What are the number of moles of hydrogen atom in 3.2 g of CH<sub>4</sub>?

A. <p>0.2</p>  
B. <p>0.4</p>  
C. <p>0.6</p>  
D. <p>0.8</p>

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16 Geometrical isomerism is possible in.

A. Alkanes  
B. Alkene  
C. Cycloalkanes  
D. Both a and c

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17 In an exothermic reaction, the energy of products is

A. Greater than reactants  
B. Less than reactants  
C. Equal to reactants  
D. Zero

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18 At equilibrium in a closed system, which two processes occur at the same rate.

A. <p>Melting and Freezing</p>  
B. <p>Evaporation and condensation</p>  
C. <p>Sublimation and condensation</p>  
D. <p>Evaporation and boiling</p>

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19 When a bond is formed

A. Energy is absorbed  
B. Energy is released  
C. Delta H is always zero  
D. No energy change

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20 The system that exchanges heat but not mass

A. Closed  
B. Rigid  
C. Open  
D. Isolated

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