

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which of the following metal exhibits more than one oxidation?	A. Na B. Mg <b>C. Fe</b> D. Al
2	Which quantum number is sufficient to describe the electron in hydrogen atom?	A. / <b>B. n</b> C. m D. s
3	Which of the following has least mass?	A. 2 gram atom of nitrogen <b>B. <math>3 \times 10^{23}</math> atoms of C</b> C. 1 mole of S D. 7.0 g of Ag.
4	Rusting of iron is catalysed by	A. Fe B. $O_2$ C. Zn <b>D. H<sup>+</sup></b>
5	Which of the following represents elements in order of increasing atomic size?	A. I, Br, Cl <b>B. Na, Mg, C</b> C. C, N, O D. Li, Na, K
6	When electrons revolve in stationary orbits	A. There is no change in energy level B. They become stationary C. They are gaining kinetic energy <b>D. There is increase in energy</b>
7	Which of the following has linear shape?	<b>A. SP</b> B. $SP^2$ C. $SP^3$ D. None of the above
8	The main structure features of proteins is	A. An ester linkage B. An ether linkage <b>C. The peptide linkage</b> D. All
9	The order of reactivity of halogens in aliphatic substitution reactions is	A. $Br > Cl > F$ <b>B. <math>Cl &gt; Br &gt; F</math></b> C. $Cl > Cl > Br$ D. $F > Br > Cl > I$
10	Which of the following statement is correct if the intermolecular forces in liquids A, B and C are in the order $A < B < C$ ?	A. B evaporates more readily than A B. B evaporates less readily than C C. A and B evaporate at the same rate <b>D. A evaporates more readily than C</b>
11	At room temperature formaldehyde is	<b>A. Gas</b> B. Liquid C. Solid D. None of the above
12	A solution of sodium sulphate was electrolysed using some inert electrodes. The products at the electrodes are	<b>A. <math>O_2</math>, <math>H_2</math></b> B. <span style="font-size: 14.4444465637207px;">O</span> <span style="font-size: 14.4444465637207px;">Na</span> C. <span style="font-size: 14.4444465637207px;">O</span> <span style="font-size: 14.4444465637207px;">SO</span> D. <span style="font-size: 14.4444465637207px;">O</span> <span style="font-size: 14.4444465637207px;">S</span> <span style="font-size: 14.4444465637207px;">O<sup>2-</sup></span> <span style="font-size: 14.4444465637207px;">S<sup>2-</sup></span>
13	Which one of the following elements occurs free in nature?	<b>A. N</b> B. P C. S

C. As  
D. Sb

14 The IUPAC name of the compound having the formula  $(CH_3)_3C - CH = CH_2$  is  
A. 1, 1 -Dimethyl-3-butene  
B. 1,1,1-Trimethyl-3-propene  
C. 3,3,-Dimethyl-1-butene  
D. 3,3,3-Trimethyl-1-propene

15 Dehydration of glycerol give  
A. Propane  
B. Propene  
C. Acrolein  
D. Benzene

16 On heating acetaldehyde with ammonical silver nitrate solution we get  
A.  $CH_{3(OH)}$   
B. Silver acetate  
C.  $HCHO$   
D. Silver mirror

17 The ratio of close packed atoms to tetrahedral holes in cubic close packing is  
A. 1 : 1  
B. 1 : 2  
C. 1 : 3  
D. 2 : 1

18 The disaccharide present in milk is  
A. Sucrose  
B. Maltose  
C. Lactose  
D. Celllobiose

19 Which of the following has greatest tendency to lose electron?  
A. F  
B. Fr  
C. S  
D. Be

20 Which of the following value of  $\Delta H_f^\circ$  represent that the product is least stable?  
A. -94.0 kcal mol<sup>-1</sup>  
B. -231.6 kcal mol<sup>-1</sup>  
C. +21.4 kcal mol<sup>-1</sup>  
D. +64.8 kcal mol<sup>-1</sup>