

Chemistry Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	Gases deviate from ideal behaviour at high pressure. Which of the following is correct for non-ideal behaviour of gases	<p>A. At high pressure, the gas molecules move in one direction only</p> <p>B. At high pressure, the collisions between the gas molecules are increased</p> <p>C. At high pressure, the volume of the gas becomes insignificant</p> <p>D. At high pressure, the intermolecular attraction becomes significant</p>
2	Equal masses of methane and oxygen are mixed in an empty container at 25°C, the fraction of total pressure exerted by oxygen is	<p>A. 1/3</p> <p>B. 8/9</p> <p>C. 1/9</p> <p>D. 16/17</p>
3	the order of the rate of diffusion of gases NH ₃ , SO ₂ , Cl ₂ and CO ₂ is	<p>A. NH₃ < SO₂ < Cl₂ < CO₂</p> <p>B. NH₃ < CO₂ < SO₂ < Cl₂</p> <p>C. Cl₂ < SO₂ < CO₂ < NH₃</p> <p>D. NH₃ < CO₂ < Cl₂ < SO₂</p>
4	The molar volume of CO ₂ is maximum at	<p>A. STP (0°C and 1 atm)</p> <p>B. 127° C and 1 atm</p> <p>C. 0°C and 2 atm</p> <p>D. 273°C and 2 atm</p>
5	How should the condition be changed to prevent the volume of a given gas from expanding when its mass is increased	<p>A. Temperature is lowered and pressure is increased</p> <p>B. Temperature is increase and pressure is lowered</p> <p>C. Temperature and pressure both are lowered</p> <p>D. Temperature and pressure both are increased</p>
6	If absolute temperature of a gas is doubled and the pressure is reduced to one half, the volume of the gas will	<p>A. Remain unchanged</p> <p>B. Increase four times</p> <p>C. Reduce to 1/4</p> <p>D. Be doubled</p>
7	Which of the following will have the same number of molecules at STP	<p>A. 280 cm³ of CO₂ and 280 cm³ of N₂O</p> <p>B. 11.2 dm³ of O₂ and 32 g of O₂</p> <p>C. 44 g of CO₂ and 11.2 dm³ of CO</p> <p>D. 28 g of N₂ and 5.6 dm³ of oxygen</p>
8	The number of molecules in one dm ³ of water is close to	
9	Pressure remaining constant at which temperature the volume of a gas will become twice of what it is at 0° C	<p>A. 546°C</p> <p>B. 200°C</p> <p>C. 546 K</p> <p>D. 273 K</p>
10	One of the following substances is not used as a drying reagent in a desiccator	<p>A. Cons. H₂SO₄</p> <p>B. P₂O₅</p> <p>C. Silica gel</p> <p>D. 50% KOH</p>
11	Chromatography is the process which involve the distribution of a solute between	<p>A. Two mobile phases</p> <p>B. A stationary phase and mobile phase</p> <p>C. Two stationary and two mobile phases</p> <p>D. Two stationary phases</p>
12	In paper chromatography the point at which the solvent rises to maximum extent is called	<p>A. Event</p> <p>B. Chromatogram</p> <p>C. Solvent front</p> <p>D. Base line</p>
13	The iodine present in water can be separated by which one of the following techniques	<p>A. Sublimation</p> <p>B. Chromatography</p> <p>C. Filtration</p> <p>D. Solvent extraction</p>

14	When I_2 is present in the aqueous layer in the form of I^- and is added to CCl_4 layer, then the change in colour is from	A. Purple to brown B. Purple to green C. Green to brown D. Brown to purple
15	One of the following substances does not undergo sublimation	A. $KMnO_4$ B. Naphthalene C. NH_4Cl D. Iodine
16	Which one of the following substances is used as decolouring agent	A. Animal charcoal B. Concentrated H_2SO_4 C. $CaCl_2$ D. Silica gel
17	In order to have good crystals of a substance the temperature of the system at the time of preparation of solution should be	A. Around $0^\circ C$ B. Around room temperature C. Sufficiently more than room temperature D. Just above the room temperature