	o>T ⁻² is the dimensional	
formula for	·	
Answer: *pressure*		
FBQ2: Logarithmic functions a units.	are quantities and hence have	no
Answer: *dimensionless*		
FBQ3:	are often used in weighing substances.	
Answer: *Balance*		
FBQ4: It is always advisable to Answer: *Tabulate*	o data for effective manageme	∍nt.
FBQ5: In application, only laws. Answer: *Ideal*	gases obey Boyle's and Cha	rles
Aliswei. Ideal		
	sup>C, Nitrogen gas in a 0.05m ^{3065 x 10⁵Pa, the number of mo}	
Answer: *11.15*		
	/sup>C, Nitrogen gas in a 0.05m ^{3<!--<br-->ure of 5.065 x 10⁵Pa, its mass}	wil
Answer: *312.2g*		
FBQ8: In line with Dalton' product of its Answer: *Mole function*	s law, in a gaseous mixture, the pressure of a gas is t and total pressure.	the
Answer: *Number density*	is the number of molecules of a gas in a unit volume.	
FBQ10: At any given instant, t	he molecules in a sample of a gas have a range of	
Answer: *Velocities*		
FBQ11: Inseries of VM. Answer: *Virial*	equation, the pressure is represented as power	
FBQ13: The critical volume is Answer: *density*	inversely proportional to critical	
FBQ14: If the temperature of t Thompson expansion results i Answer: *heating*	he gas is above its inversion temperature, Joule n	

FBQ15: Linde's method of Claude's method. Answer: *Less*	of liquefaction is	efficie	nt than
FBQ16: Answer: *Instantaneous*	_ polarity is a temporary di	polar arrangement	of charge.
FBQ17: A lattice is a regular _ Answer: *periodic*	arrangement of points in space.		
FBQ18: Every composition. Answer: *basis*	is identical in orien	tation, arrangemen	t and
FBQ19: Metallic solids can be adjacent atoms. Answer: *covalent*	seen as having	bonds	s between
FBQ20: The bond model is the Answer: *Valence*	e same as the	bond ap	proach.
FBQ21: The bcc crystal can be in the cell. Answer: *unique*	e defined in terms of two _		positions
FBQ22: When a germanium is	s doped with gallium, the ga	allium (impurity) is o	called the
Answer: *Acceptor*			
FBQ23: Due to strong hydrogo pressure than benzene. Answer: *Lower*	en bonding, water has		vapour
FBQ24: The successive twist crystals coloured. Answer: *cholesteric*	in structure makes the		liquid
FBQ25: hydrogen bonding. Answer: *Trouton's*	_ rule is applicable to liquic	Is in which there is	no
FBQ26:kilogram of the solvent. Answer: *Molality*	_ is the number of moles o	f solute present in o	one
FBQ27: The solubility of a gas or coef Answer: *Bunsen*		terms of absorption	coefficient

FBQ28: The concentration of gases that pollute the atmosphere are expressed in
Answer: *Parts per million*
FBQ29:, ideal solutions are those in which volume change is zero. Answer: *Thermodynamically*
FBQ30: A solution is said to show deviation from Raoult's law, when the vapour pressure of the solution is lower than that of an ideal solution of the same concentration. Answer: *negative*
FBQ31: According to, the mole fraction of a more volatile component in an ideal solution is more in the vapour phase than in the liquid phase. Answer: *Konownloff*
FBQ32: Fractional distillation is a process Answer: *Continuous*
FBQ33: Another name for critical solution temperature istemperature. Answer: *Consolute*
FBQ34: Differential is employed in the static method of lowering vapour pressure. Answer: *Manometer*
FBQ35: In, Gibbs deduced a simple relationship among the number of phases in equilibrium. Answer: *1876*
FBQ12: The volume of gas that liquefies at critical pressure and temperature is the critical volume. True or False? Answer: *False*
Multiple Choice Questions (MCQs): MCQ1: ML ² T ⁻² is the dimensional formula for Answer: Work
MCQ2: Which of this/these representations of force is/are correct?l & nbsp; 50 newton!V 50 newton. Answer: I,III
MCQ3: The SI unit factor of 2.5km in M/KM is Answer: 1/1000

MCQ4: Steam bath is employed in which of the separation methods?

Answer: sublimation

MCQ5: Which of the following is false about gases?

Answer: They expand at high temperature

MCQ6: <p style="text-align:left">Which of these have definite volume?

Answer: Solids

MCQ7: <p style="text-align:left">Which of the following is false?

Answer: Gas pressure can vary inversely with its volume

MCQ8: <p style="text-align:left">lf a fixed mass of gas is transferred from a 50cm<sup>3</sup> container to a 150cm<sup>3</sup> container,

then its pressure will be

Answer: Tripled

MCQ9: <p style="text-align:left">Charles law is not linked with which of the

following? Answer: Pâ^žT

MCQ10: <p style="text-align:left">One of the following has no contribution to the

kinetic theory?

Answer: James Clark

MCQ11: <p style="text-align:left">Gaseous diffusion method can be used to

separate _____ Answer: Isotopes

MCQ12: <p style="text-align:left">Considering CO, HCl and NH<sub>3</sub> at 400K, which conclusion is true regarding their average kinetic energies?

Answer: HCIEfCOEfNH<sub>3</sub>

MCQ13: <p style="text-align:left">Gases behave ideally at _____<p style="text-align:left">I&nbsp;&nbsp;&nbsp; Low pressure<p style="text-align:left">II &nbsp;&nbsp; High pressure<p style="text-align:left">III&nbsp;&nbsp; High temperature<p style="text-align:left">IV&nbsp; Low temperature.

Answer: I and IV

MCQ14: <p style="text-align:left">All the following are true of the density of a liquid except .

Answer: Increases with temperature

MCQ15: <p style="text-align:left">One of these is not a refrigerant.

Answer: Ammonia

MCQ16: <p style="text-align:left">Vander waals forces includes the following



