MCQ1: One of the following pair cannot constitute suitable pair for n-type conductor?

Answer: Antimony: Arsenic

MCQ2: One of the following is not true about n-type conductor

Answer: There is no chemical but physical interaction between the impurity and the

semi conductor

MCQ3: One of the following is not a right pair for p-type semi conductor

Answer: Aluminium: indium

MCQ4: One of the following is not associated with the conductivity of semi conductors

due to doping Answer: o-type

MCQ5: One of the following is not a class of crystal solids

Answer: Hydrogen bonded

MCQ6: One of the following does not describe the crystal structure of metallic solid

Answer: Trigonal-close packing

MCQ7: The unit of one of the following quantity is a derived unit

Answer: Momentum of electron

MCQ8: When iron metal corrodes, its colour changes to \_\_\_\_\_

Answer: Brown

MCQ9: One of the following is not a chemical instrument

Answer: Filter paper

MCQ10: The pressure exerted by  $0.5~\rm cm3$  of gas is 1 Pa at 273 K. If the temperature of the gas changes to 546 K and its pressure to 3 Pa, what will be the new volume of the

gas

Answer: 0.3 cm3

MCQ11: One of the following combination does not match for gas law

Answer: Gay-Lussac law: Constant volume

MCQ12: If 3.00 litre sample of gas at 1.00 atm is compressed to 0.600 litre at constant

temperature. Calculate the final pressure of the gas

Answer: 5.0 atm

MCQ13: Calculate the volume which 6.00 litres of gas at 0 °C will occupy at 125°C

at constant pressure Answer: 8.75 litres

MCQ14: Calculate the volume occupy by 32 g of oxygen at stp

Answer: 44.8 dm3

MCQ15: One of the following is not correct

Answer: 1 atm = 1 Pa

MCQ16: Calculate the volume occupied by 0.0660 kg of carbon (IV) oxide gas at a temperature of 300.2 K and a pressure of 9.41 x I0 Pa assuming ideal behaviour

Answer: 0.0398m3

MCQ17: Hydrogen bonding may not affect the physical properties of one of the

following molecules

Answer: CsF

MCQ18: Which of the following pair does not agrees with the kinetic theory of gases

Answer: Temperature = Average collision

MCQ19: The length of one axis of a cubic crystal is 0.05 cm. What is the length of the

next minimum axis? Answer: 0.05 cm

MCQ20: Which of the following is not true about Graham's law

Answer: Diffusion rate is proportional to density

MCQ21: Use Dalton law to calculate the total vapour pressure exerted by a mixture of

A and B if the following data were obtained; XA = 0.40, XB = 0.60, PA0 = 1710 mm/Hg

and PB0 = 127 mm/HgAnswer: 760 mm/Hg

MCQ22: Which of the following pair does not match?

Answer: Hexagonal:K2O

MCQ23: Which of the following pair does not match?

Answer: Hexagonal: a=b=c

MCQ24: Which of the following salts can form precipitate

Answer: AgCl

MCQ25: The value of the gas constant R is often expressed as I 987 cal moJ-1 K 1 •

Obtain its value in SI units (Given 1 ca; = 4.184 J)

Answer: 8.314 J/mol/K

MCQ26: 16 g of oxygen gas occupies a volume of 22.4 dm3. Calculate the density of

the gas

Answer: 0.000714 g/dm3

MCQ27: The concentration of an acid in a sample can be estimated by \_\_\_\_\_

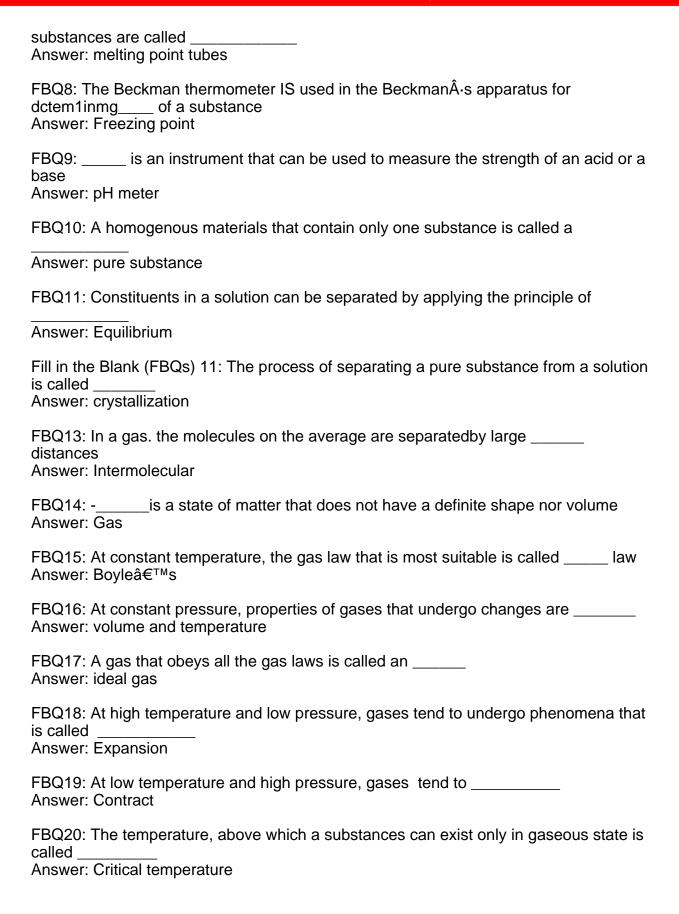
Answer: Titration

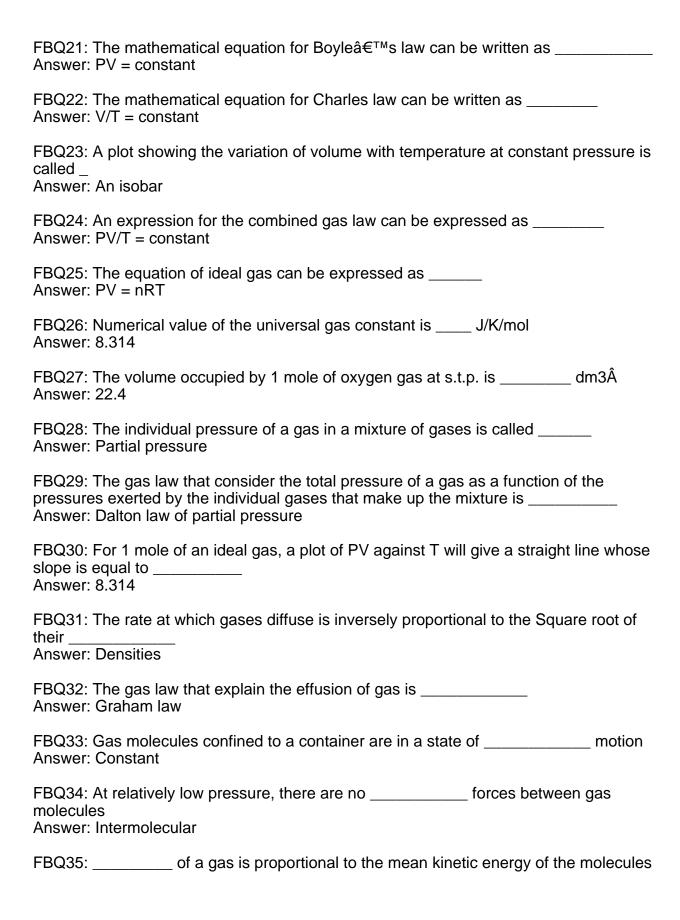
MCQ28: Consider four gases whose densities are (i) 0.2, (ii) 0.4, (iii) 0.6 and (iv) 0.8 g/

cm3. The order of diffusion will be

Answer: i>ii>iii>iv

MCQ29: The pressure of air in a system is 10 Pa and the volume occupied is 4 m3. If the the volume is increased to 16 m3, what will be the new pressure Answer: 2.5 pa
MCQ30: The order of intermolecular distance among the three state of matter is Answer: Gas>liquid>solid
MCQ31: The product of pressure and volume of a gas at 300 K is 500 Pam3. Calculate the number of moles of the gas Answer: 0.2
MCQ32: 2 moles of water was mixed with 3 moles of ethanol. The ratio of the mole fraction of ethanol to that of water is Answer: 1.5
MCQ33: An ideal gas will not obey one of the following law Answer: Van der waal
MCQ34: A real gas will obey one of the following lawÂ Answer: Van der waal law
MCQ35: A solute was dissolved in two separate immiscible solvent. If 2.0g of the salt dissolve in the first solvent and 4.0g dissolved in the second solvent. Calculate the partition coefficient if the two solution are combined together Answer: 0.5
FBQ1: Modern approach to chemistry deals with equilibrium properties, ability to change and Answer: Structure
FBQ2: Physical Chemistry is concern with two major aspects, namely ability to change and Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-A-A-A-A-A-A-A-A-A
FBQ3: International system of unit or systeme internatwnale can be written as an acronymAnswer: SI unit
FBQ4: Temperature, length, time and mass are examples of Answer: basic quantities
FBQ5: Meter, kelvin, second and kilogram are examples of Answer: Basic units
FBQ6: A skilful process of identifying. substituting and using correct apparatusappropriately in the laboratory is called Answer: Instrumentation
FBQ7: Apparatus that arc basically used for determining the melting points of





in a gas

Answer: Absolute temperature