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- (a)Solids
- (b)Liquids
- (c)Gases
- (d)Plasmas

Question 30.Densities of two gases are in the ratio 1: 2 and their temperatures are in the ratio 2: 1, then the ratio of their respective pressure is:

- (a)1:1
- (b)1:2
- (c)2:1
- (d)4:1

Question 31. Which of the following expression at constant pressure represents Charles law?

- (a) VTVT=constant
- (b) PVPV=constant
- (c) VTVT =constant
- (d) None of the above

Question 32. For an ideal gas number of moles per litre in terms of its pressure P, gas constant R and temperature T is:

- (a) PTRPTR
- (b) PRTPRT
- (c) PRTPRT
- (d) RTPRTP

Question 33.Rate of diffusion of a gas is:

- (a)Directly proportional to its density
- (b)Directly proportional to its molecular mass
- (c)Inversely proportional to the square root of its density
- (d)Inversely proportional to the square root of its molecular mass

Question 34.According to Graham' law at a given temperature, the ratio of the rates of diffusion rArBrArB of gases A and B is given by:

- (a) PAPB√MAMBPAPBMAMB
- (b)MAMB√PAPBMAMBPAPB
- (c)PBMB√PAMAPBMBPAMA
- (d)MAMB√PBPAMAMBPBPA

Question 35.A bottle of ammonia and a bottle of dry hydrogen chloride connected through a long tube are opened simultaneously at both ends, the while ammonium chloride ring first formed will be:

- (a)At the center of the tube
- (b)Near the hydrogen chloride bottle
- (c)Near the ammonia bottle
- (d)Throughout the length of the tube

Ouestion 36. Select the one that is not a matter:

- (a)Feeling of hot
- (b)Smoke
- (c)Humidity
- (d)Water

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Question 37. Which is incorrect statement:

- (a)Matter is continuous in nature.
- (b)Of the three state of matter, the one that is most compact is solid state.
- (c)In solid state inter-particles space (i.e., empty space) is minimum.
- (d)The density of solid is generally more than that of a liquid.

Question 38. Select the one that when used would be considered as best condition for liquification of a gas:

- a)Increasing the temperature
- b)Decreasing the pressure
- c)Increasing the pressure and decreasing the temperature
- d)Decreasing the pressure and increasing the temperature.

Question 39. Select the correct order of evaporation for water, alcohol, petrol and kerosene oil:

- (a)Water > alcohol > kerosene oil > petrol
- (b)Alcohol > petrol > water > kerosene oil
- (c)Petrol > alcohol > water > kerosene oil
- (d)Petrol > alcohol > kerosene oil > water

Ouestion 40. Which one is a sublime substance?

- (a)Table salt
- (b)Sugar
- (c)Iodine
- (d)Potassium iodide

## **Answer**

