

1. All the following variables are used to describe gases except

- A. pressure B. volume
C. moles D. density

Answer: Option D

2. In the van der Waals equation $(P + n2a / v^2) (v - nb) = nRT$ which of the following statement is not true?

- A. $n2a/v$ correct for the intermolecular forces. B. nb correct for the volume occupied by gas molecules.
C. at high densities the equation reduces to the ideal gas law D. all of the above statements are correct.

Answer: Option C

3. Methyl alcohol is not used as

- A. a solvent B. an anti freezing agent
C. a substitute for petrol D. for denaturing of ethyl alcohol

Answer: Option C

4. The inhaled breath of diabetics patient contain acetone. A medical student wishes to test for diabetes by asking patient to bubble their breath through a reagent.

- A. alkaline aqueous iodine B. aqueous bromine
C. Fehling solution D. aqueous NaOH

Answer: Option A

5. Oxygen (molecular weight = 32) diffuses at a rate of 10cm³/min under the same conditions of temperature and pressure how fast will hydrogen (molecular weight = 2) diffuse?

- A. 20cm³/min B. 40cm³/min
C. 160cm³/min D. 2.5cm³/min

Answer: Option B

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6. When aqueous bromine is added to aqueous phenol a creamy white ppt is obtained. What does this reaction show?
- A. phenol is unsaturated
- B. 2-bromophenol is insoluble in water
- C. a hydroxy group makes the benzene ring more susceptible to electrophilic attack
- D. acid-base reaction

Answer: Option C

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7. As a substance moves from a solid to a liquid all of the following changes occur except:
- A. molecules become more disordered.
- B. K.E of the molecules decreases
- C. intermolecular forces become weaker.
- D. molecules move more frequently.

Answer: Option B

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8. If a graph is plotted between temperature on x-axis and volume on y-axis for 1 mole of gas then we get straight line which cuts the temperature axis at
- A. 0°C
- B. 273.16K
- C. 273.16 K
- D. 273.16°C

Answer: Option D

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9. The rectified spirit is
- A. 12% alcohol
- B. 90% alcohol
- C. 95% alcohol
- D. 100% alcohol

Answer: Option C

10. Benzene is a good solvent for

A. fats

B. resins

C. iodine

D. all the above

Answer: Option D

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