

12.12.19

STD:XI

Marks:25

I. Answer in one sentence:

5x1=5

1. What is absolute temperature scale?
2. State Charle's law.
3. What is known as Avogadro constant?
4. What is aqueous tension?
5. What is meant by partial pressure?

II. Answer in short :

3x2=6

6. What is known as Boyle's law?
7. State Dalton's law of partial pressures.
8. Using the equation of state $Pv=nRT$, show that at a given temperature density of a gas is proportional to gas pressure P.

III. Answer in brief:

3x3=9

9. Derive the ideal gas equation.
10. A vessel of 120ml capacity contains a certain amount of gas at 35° c and 1.2 bar pressure. The gas is transferred to another vessel of volume 180ml at 35° c. What would be its pressure?
11. Calculate the volume occupied by 8.8g of CO₂ at 31.1°c and 1 bar pressure $R=0.083 \text{ bar dm}^3\text{K}^{-1}\text{mol}^{-1}$.

IV. Answer in detail:

1x5=5

12. i) Calculate the total pressure in a mixture of 8g of dioxygen and 4g of dihydrogen confined in a vessel of 1dm at 27°c, $R=0.083 \text{ dm}^3\text{K}^{-1}\text{mol}^{-1}$.
ii) State Avogadro's law.

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TT – Micro Economics

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I. Give very short Answers:

5x1=5

1. What is Law of Demand?
2. Give one reason for a rightward shift in demand curve.
3. What economic measure can the Government take to reduce demand for commodity X which is harmful for health?
4. If the price of good x rises and this leads to a fall in the demand for good y, how are the two goods related?
5. Define substitute goods.

II. Answers in short:

5x2=10

1. Define the following term:
i) Increase in Demand ii) Contraction in Demand
2. Explain the inverse relationship between the price of a commodity and its demand
3. Distinguish between a normal good and an Inferior good. Give example in each case.
4. Goods X and Y are substitutes. Explain the effect of fall in price Y on demand for X.
5. Explain three factors that can bring about an increase in the market demand for a commodity.

III. Give Long Answers for :

2x5=10

1. Explain in brief, the various exceptions to law of demand.
2. Distinguish between an inferior good and a normal good. Explain the effect of change in income on each, giving suitable examples.