## EXERCISE

## Choose the Correct Option.

- 25	The m	nass of an atom(e	element) compa	ared with the r	mass of one atom of (
	is calle				
		One mole		b. Gram ato	mic mass
	c. Atomic number			d. Relative atomic mass	
)		of the following		a mole?	
3	at the same of the	It is a counting		Antonia Sara-sari a	
	b.	It is the gram at	tomic or gram	formula mass	of a substance
	C.	It contains 6.02	3x10 <sup>23</sup> particles		
	d.	It contains diffe	rent number o	f particles for o	different substances
3	What	is the mass (in g	rams) of 5 mole	es of water (H <sub>2</sub>	O)?
		90g	b. 36g	c. 18g	d. 100g
1.	The n	umber of molecu	iles in 22g of C	O <sub>2</sub> is	कार घटना विकास
	a. 6.023x10 <sup>23</sup>			b. 3.011 x10 <sup>23</sup>	
	c.	6.023x10 <sup>21</sup>	8	d. 6.023x10 <sup>2</sup>	2
5.	What will be the values of temperature and pressure at standard con-				
	(STP),		Pac		
	a. 100°C, 1 atm		Ch	b. 298K, 1atm	
	c.) 273K, 760mm Hg		160	d. 0°C, 760cm Hg	
	The m	olar volume of S	O <sub>2</sub> gas at STP is	S <sub>FE</sub>	
	a.	64dm <sup>3</sup>	b. 24dm <sup>3</sup>	7c. 22.4dm <sup>3</sup>	d. 22.4cm³
	The pe	ercentage of Ca i			<b>A</b>
71 -27	a.	12%	b. 10%	c. 48%	d.)10%
. (	Given	the equation:	$CO_{2(g)} + C_{(s)}$		2CO <sub>(g)</sub>
	W	nich of the follow	ing equivalend	es is not corre	ect for the reaction,
	a.	1mol CO <sub>2</sub> ≅ 2 m	ol CO	b. 1mol C ≅	56g CO
E	(C.)	44g CO₂≅ 28g C	0	d. 44g CO <sub>2</sub> s	≅12g C
. /	A limit	ing reactant is on			
	a.	Which is present	t in maximum	amount	
•	b.	Which produces	minimum No.	of moles of p	product
	C.	Which produces	maximum No	of moles of	oroduct
	d.	Does not affect	the amount of	product	

- 10. Efficiency of chemical reaction can be checked by calculating
  - a. Actual yield

b. Theoretical Yield

- - Percentage Yield d. Amount of the reactant unused
- 11. Actual yield will reach the ideal (theoretical) value if the % yield of the reaction is,

- b. 50% 89
- c. 90%
- 100%

- 12. The maximum No. of moles are present in
  - a. 11.2 dm³ of H<sub>2</sub> gas at STP b. 44.8 dm³ of N<sub>2</sub> gas at STP
  - 67.2 dm³ of CO₂ gas at STP d. 22.4 dm³ of O₂ gas at STP

## Short Questions

- What is gram atom? Why the concept of gram atom is useful in chemistry
- Explain why balanced chemical equations are used in stoichiometri