9.

10.

19.

20

21

c) 3.011×10^{22}

d) 3.011×10^{23}

33.

34.

35.

(Atomic mass = 39.9)

b) 3.011×10^{21}

a) 6.022 × 10²²

36.

37.

38.

39.

40

42.

43.

44.

45

	36.	How many make	To the second se	9	MHT-CET	
	00 MF 6	a) 0.5 mole	n methane are pres	sent in 11.21, at STP?		
	37.		b) 0.25 mole 3.01 × 10 ²⁴ atoms of	c) 0.12 mole	d) 0.6 male	
		6	103.65 g mol	f an element having ator 1 c) 84.54 g mol ⁻¹	di 12 22 - 1 1	
Service Control	38.	The number of mole	es of ammonia pres	esent in 5.6 dm ³ of its vo	0) 92.27 g mol-1 lume at \$10 :- 2	
		a) 0.25	b) 1.0	c) 0.50	d) 0.75	
	20	14/1	[MHT-	-CET 20211		
	39.	a) 6.022 - 1020	ımber of molecules	s present in 224 cm ³ of	a gas at STP ?	
	10	a) 6.022 × 10 ²⁰	b) 6.022×10^{23}	c) 6.022×10^{22}	d) 6.022 × 1021	
	40.	Number of molecule a) 6.0×10^{22}	es present in 5.4 g	of urea is (molar mass		
	41.	1/5/	b) 5.4 × 10 ²²	c) 9.0×10^{22}	d) 3.5×10^{23}	
,		a) 1.1×10^{23}	f argon are present b) 1.5×10^{25}	nt in 52 moles of it? (At		
4		5		c) 3.1×10^{25} in 5.4 g ? (molar mass	d) 1.2×10^{23}	
7		a) 2.9	b) 0.09	in 5.4 g? (molar mass c) 1.2		
43		What is the mass of 3	104877. 104040048		d) 2.4	
7.		100	b) $3.3 \times 10^{-2} \text{ kg}$		d) 2410-21	
44		How many grams of	_	, ,	d) $2.4 \times 10^{-2} \text{ kg}$	
77		a) $0.25 g$	b) 5.4 g	c) 4.5 g	d) 61~	
	۵	, 8	, ,	c) 4.5 g [-CET 2022]	d) 6.1 g	
4-	r	ind the number of			I-C-NII	
45.				present in 6.0 g of H ₂ N	N – C–NH ₂ II O	
	a)	3.01×10^{23}	b) 4.06×10^{23}	c) 2.4×10^{23}	d) 2.16×10^{23}	
46.	M	ass of one molecule	e of oxygen in an	mu and in gram respe	ectively is	
	a)	16 u, 6.0 × 10 ⁻²⁴ g	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	b) 32 u, 53.13 ×	× 10 ^{−24} g	
		$53.13 \text{ u} \times 10^{-24} \text{ u}, 3$		d) 42 u, 5.313 >	× 10 ⁻²⁴ g	
47.		hich of the following	· ·	E.	.55	
-/.			J 1 1			
3	a)	10 mL water at ro	om temperature	b) $\frac{1}{2}$ mole of 0	CH_4	
	ر اه	1 male of carbon	itoms	d) 3.011 × 102	³ atoms of oxygen	
c) 1 mole of carbon atoms48. How many molecules of water are presen				1950.	(5)	
48.	- 7					
		6.00×10^{21}	b) 1.67×10^{21}	c) 2.0×10^{21}	d) 5.02×10^{21}	
49.			helium gas occu	ipy 22.4 L at 0°C and	d at 1 atmospheric pressur	
	a) 0		b) 1.11	c) 1.0	d) 0.9	
		dentify the gas from the following so that 1 litre of it weighs 1.16 g at STP.				
			b) CH ₄	c) O ₂	d) CO	
i	a) C	-2112	-,4	-/ -2	70	

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