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Subject- chemistry

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Class IX A, B, C, D,E, F

Atom and molecules part – 5

Choose the correct option:
1. The atomicity of $K_2Cr_2O_7$ is
(a) 9 (b) 11
(c) 10 (d) 12
2. The formula for quick lime is
(a) $CaCl_2$ (b) $CaCO_3$
(c) $Ca(OH)_2$ (d) CaO
3. The symbol of cadmium is
(a) Ca (b) Cu
(c) Cm (d)Cd
4. All noble gas molecules are
(a) monoatomic (b) diatomic
(c) triatomic
5. The valency of nitrogen in NH_3 is
(a) 1.   (b)3
(c) 4.   (d) 5
6. The formula of ethanol is C_2H_5-OH. Its molecular mass is
(a) 46 u (b) 34 u
(c) 34 g (d) 46 g
7. How many moles are present in 28 g of nitrogen atoms?
(a) 1 mole (b) 2.3 moles
(c) 0.5 mole (d) 2 moles
8. The molecular mass of x is 106. x among the following is
(a) $CaCO_3$ (b) SO_3
(c) Na_2CO_3 (d) $NaCl$
9. Which among the following is not a postulate of Dalton's atomic theory?
(a) Atoms cannot be created or destroyed.
(b) Atoms of different elements have different sizes, masses and chemical properties.
(c) Atoms of same elements can combine in only one ratio to produce more than one compound.
(d) Atoms are very tiny particles which cannot be divided further.

10. Pick up the wrong pairs/combination
(a) 6.022×10^{23} molecules of oxygen = 32 g of oxygen
(b) 6.022×10^{23} ions of sodium = 23 g of Na
(c) 6.022×10^{23} atoms of C = 24 g of carbon
(d) 6.022×10^{23} atoms of H = 1 g of H atoms
Answer. 1—(b), 2—(d), 3—(d), 4—(a), 5—(b), 6-(a), 7—(d), 8—(c), 9—(c), 10—(c).

By − soni kumari (chemistry)