

Holidays Homework

CLASS - 11th Medical

English

Prepare all these in a A4 size sheet and compile them in a file.

Q.1 Write **Notices** on the following occasions (three of each category)

- a. Tours
- b. Sports
- c. Cultural/Extra-curricular activities
- d. Lost & Found
- e. Appeals

Q.2. Write **Formal letters** on the following topics (Two of each category)

- a. Complaint
- b. Editor
- c. Placing order
- d. Enquiry
- e. Job Application

Q.3 Write **Articles** on the following topics (Do no any 2 topics)

- a. My vision of future India
- b. Digital education in India
- c. Women safety in India
- d. 50-years of Earth Day

Q.4 Read all the poems and Write down their Poetic Devices, Summary and Theme.

Hope you all have a great holiday and make sure to keep yourself safe. 👍 😊 👍

Physical Education

Q- Define Physical education and explain it's aim and objectives in detail.

Q- Elaborate the ' khelo India programme in detail.

Q- what are the career option in physical education?

Q- Explain the origin of Ancient Olympic Game and modern Olympic games

Q- write short note on:

- (i) Olympic motto
- (ii) Olympic flag
- (iii) Olympic flame

Q- Anyone one IOA recognized sports/Game of choice. Labelled diagram of field and equipment. Also mention it's rules, Terminologies and skills.

1. Draw a well labelled diagram of plant cell, animal cell, nucleus, mitochondria, flagella, centrosome.
2. Write a short note on ER, Plastids, lysosomes, vacuoles.
3. Differentiate between Mitosis & Meiosis.
4. Differentiate between cell wall & plasma membrane.
5. Explain active & passive transport.
6. Explain Prophase-I of meiosis-I.
7. How anaphase of mitosis is different from anaphase of meiosis-I.
8. Explain the significances of mitosis & meiosis.

- Number of HCl molecules present in 10 mL of 0.1 M solution is :
(1) 6.022×10^{23} (2) 6.023×10^{22}
(3) 6.022×10^{21} (4) 6.022×10^{20}
- The volume of a gas at 0°C and 700 mm pressure is 760 cc. The no. of molecules present in this volume is
(1) 1.88×10^{22} (2) 6.022×10^{23}
(3) 18.8×10^{23} (4) 18.8×10^{22}
- The number of moles of carbon dioxide which contain 8 g of oxygen is –
(1) 0.5 mole (2) 0.20 mole
(3) 0.40 mole (4) 0.25 mole
- If 224 mL of a triatomic gas has a mass of 1 g at 273 K and 1 atm pressure, then the mass of one atom is –
(1) 8.30×10^{-23} g (2) 2.08×10^{-23} g
(3) 5.53×10^{-23} g (4) 6.24×10^{-23} g
- The maximum number of molecules are present in
(1) 5 L of N_2 gas at STP
(2) 0.5 g of H_2 gas
(3) 10 g of O_2 gas
(4) 15 L of H_2 gas at STP
- How many moles of magnesium phosphate, $\text{Mg}_3(\text{PO}_4)_2$ will contain 0.25 mol of oxygen atoms?
(1) 2.5×10^{-2} (2) 0.02
(3) 3.125×10^{-2} (4) 1.25×10^{-2}
- 22.4 L of water vapour at NTP, When condensed to water occupies an approximate volume of –
(1) 18 L (2) 1 L
(3) 1 mL (4) 18 mL
- 0.01 mol of iodoform (CHI_3) reacts with Ag to produce a gas whose volume at NTP is
$$2\text{CHI}_3 + 6\text{Ag} \rightarrow \text{C}_2\text{H}_2 + 6\text{AgI(s)}$$

(1) 224 mL (2) 112 mL
(3) 336 mL (4) None of these
- The minimum quantity in grams of H_2S needed to precipitate 63.5 g of Cu^{2+} will be nearly :
$$\text{Cu}^{+2} + \text{H}_2\text{S} \rightarrow \text{CuS} + \text{H}_2$$

(1) 63.5 g (2) 31.75 g
(3) 34 g (4) 20 g
- 2.76 g of silver carbonate on being strongly heated yields a residue weighing –
$$\text{Ag}_2\text{CO}_3 \rightarrow 2\text{Ag} + \text{CO}_2 + \frac{1}{2}\text{O}_2$$

(1) 2.16 g (2) 2.48 g (3) 2.32 g (4) 2.64 g
- The volume of gas at NTP produced by 100 g of CaC_2 with water is :-
$$\text{CaC}_2 + 2\text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2 + \text{C}_2\text{H}_2$$

(1) 70 L (2) 35 L (3) 17.5 L (4) 22.4 L
- Element 'A' reacts with oxygen to form a compound A_2O_3 . If 0.359 g of 'A' reacts to give 0.559 g of the compound, then atomic weight of 'A' will be :-
(1) 51 (2) 43.08 (3) 49.7 (4) 47.9
- CaCO_3 is 90% pure. Volume of CO_2 collected at STP when 10 g of CaCO_3 is decomposed is -
(1) 2.016 L (2) 1.008 L
(3) 10.08 L (4) 20.16 L
- 50 g CaCO_3 will react with g of 20% pure HCl by weight .
(1) 36.5 g (2) 73 g (3) 109.5 g (4) 182.5 g
- Two oxides of a metal contains 50% and 40% of the metal respectively. The formula of the first oxide is MO . Then the formula of the second oxide is
(1) MO_2 (2) M_2O_3 (3) M_2O (4) M_2O_5

16. A gas mixture of 3 L of propane and butane on complete combustion at 25°C produces 10 L of CO_2 . Initial composition of the propane & butane in the gas mixture is –
 (1) 66.67%, 33.33% (2) 33.33%, 66.67%
 (3) 50%, 50% (4) 60%, 40%
17. The atomic mass of an element is 27. If valency is 3, the vapour density of the volatile chloride will be:-
 (1) 66.75 (2) 6.675 (3) 667.5 (4) 81
18. 1 L of a hydrocarbon weighs as much as 1 L of CO_2 under similar conditions. Then the molecular formula of the hydrocarbon is –
 (1) C_3H_8 (2) C_2H_6
 (3) C_2H_4 (4) C_3H_6
19. There are two oxides of sulphur. They contain 50% and 60% of oxygen respectively by weight. The weight of sulphur which combine with 1 g of oxygen is in the ratio of –
 (1) 1 : 1 (2) 2 : 1
 (3) 2 : 3 (4) 3 : 2
20. Percentage composition of an organic compound is as follows :
 $\text{C}=10.06$, $\text{H}=0.84$, $\text{Cl}=89.10$
 Which of the following corresponds to its molecular formula if the vapour density is 60.0
 (1) CH_2Cl_2 (2) CHCl_3
 (3) CH_3Cl (4) None
21. The ratio of masses of oxygen and nitrogen in a particular gaseous mixture is 1 : 4. The ratio of number of molecules is :
 (1) 1 : 8 (2) 3 : 16
 (3) 1 : 4 (4) 7 : 32
22. A gaseous hydrocarbon on combustion gives 0.72 g of water and 3.08 g of CO_2 . The empirical formula of the hydrocarbon is
 (1) C_2H_4 (2) C_3H_4
 (3) C_6H_6 (4) C_7H_8
23. What volume of oxygen gas (O_2) measured at 0°C and 1 atm, is needed to burn completely 1L of propane gas (C_3H_8) measured under the same conditions:-
 (1) 5 L (2) 10 L
 (3) 7 L (4) 6 L
24. Volume occupied by one molecule of water (density = 1 g cm^{-3}) is :-
 (1) $3.0 \times 10^{-23} \text{ cm}^3$ (2) $5.5 \times 10^{-23} \text{ cm}^3$
 (3) $9.0 \times 10^{-23} \text{ cm}^3$ (4) $6.023 \times 10^{-23} \text{ cm}^3$
25. How many moles of lead (II) chloride will be formed from a reaction between 6.5 g of PbO and 3.2 g of HCl ? (Atomic wt. of $\text{Pb}=207$)
 (1) 0.011 (2) 0.029
 (3) 0.044 (4) 0.333
26. The percentage of oxygen in ethanol is
 (1) 13.13% (2) 34.73%
 (3) 60% (4) 75%
27. Empirical formula of a compound is
 (1) Whole number ratio of various atoms present in compound.
 (2) Contain exact number of different types of atoms present in a molecule.
 (3) Simplest whole number ratio of various atoms present in a compound.
 (4) None of these
28. A compound contains 6.72% hydrogen, 40% carbon and 53.28% oxygen, its molecular mass is $180.18 \text{ g mol}^{-1}$ then molecular formula of compound is :-
 (1) $\text{C}_2\text{H}_2\text{O}_4$ (2) $\text{C}_2\text{H}_4\text{O}_{12}$
 (3) $\text{C}_6\text{H}_6\text{O}_{12}$ (4) $\text{C}_6\text{H}_{12}\text{O}_6$
29. When gases combine or are produced in a chemical reaction they do so in a simple ratio by volume provided all gases are at same temperature and pressure. This law is known as -
 (1) Dalton's Law (2) Gay Lussac's Law
 (3) Avogadro's Law (4) Law of Lavoisier