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### Chapter 1 : Biology MCQs | Biology Multiple Choice Questions and Answers - Class 12 Objective Questions

*What is Valency? A valency is a property of a groups or atoms, equal to the number of atoms of hydrogen that the group or atom could combine with or displace it in forming compounds.*

How many significant figures should be present in the answer of the following calculations? What is the symbol for SI unit of mole? How is the mole defined? What is the difference between molality and molarity? Calculate the mass percent of calcium, phosphorus and oxygen in calcium phosphate  $\text{Ca}_3\text{PO}_4 \cdot 2\text{H}_2\text{O}$ . The reaction is given below: Write the statement of the law? If two elements can combine to form more than one compound, the masses of one element that combine with a fixed mass of the other element, are in whole number ratio. Calculate the average atomic mass of hydrogen using the following data: Hydrogen gas is prepared in the laboratory by reacting dilute HCl with granulated zinc. Following reaction takes place. The density of 3 molal solution of NaOH is 1. Calculate the molarity of the solution. Volume of a solution changes with change in temperature, then, will the molality of the solution be affected by temperature? Give reason for your answer. If 4 g of NaOH dissolves in 36 g of  $\text{H}_2\text{O}$ , calculate the mole fraction of each component in the solution. Also, determine the molarity of solution specific gravity of solution is 1g mL The reactant which is entirely consumed in reaction is known as limiting reagent. Choose the correct option out of the choices given below each question. The empirical mass of ethene is half of its molecular mass. The empirical formula represents the simplest whole number ratio of various atoms present in a compound. One atomic mass unit is defined as one twelfth of the mass of one carbon atom. Carbon isotope is the most abundant isotope of carbon and has been chosen as standard. Significant figures for 0. Zero at the end or right of a number are significant provided they are not on the right side of the decimal point. Combustion of 16 g of methane gives 18 g of water. In the combustion of methane, water is one of the products. Long Answer Type Questions A vessel contains 1. The gas is now transferred to another vessel at constant temperature, where pressure becomes half of the original pressure. Calculate i volume of the new vessel. Name the limiting reagent. Calculate the number of moles of  $\text{CaCl}_2$  formed in the reaction. Define the law of multiple proportions. Explain it with two examples. How does this law point to the existence of atoms? A box contains some identical red coloured balls, labelled as A, each weighing 2 grams. Another box contains identical blue coloured balls, labelled as B, each weighing 5 grams.

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Define the term Aliquot and Diluent? It is a measured sub-volume of original sample Diluent: Material with which sample is diluted 2. Define what is molality? Molality is the number of solute that is present in 1 kg of a solvent. Define what is titration? Titration is a process to determine the molarity of a base or an acid. In this process a reaction is carried out between the known volumes of a solution with a known concentration, against the known volume of a solution with an unknown concentration. Define what is buffer? A buffer is an aqueous solution which has highly stable pH. It is a blend of a weak acid and its conjugate base or vice versa. On adding small amount of base or acid to buffer, its pH hardly changes. Define how buffer works? In buffer when hydrogen ion is added, it will be neutralized by the base in buffer. Hydroxide ion will be neutralized by the acid. On the overall pH of the buffer solution, these neutralization reactions will not show much effect. While when you select an acid as a buffer solution, try to use an acid that has a pH closed to your desired pH. Define what is mole? Mole is the unit used to define the number of chemical substance present in a substance. It is the amount of substance which consists of the same number of chemical units as there are atoms in exactly 12 gram of pure carbon How will you calculate how many moles of glucose present in mL of 5. Define what is the difference between fractionation and distillation? Both methods are used to separate the components present in the solution based on the melting points Distillation: This technique is used when boiling point of chemicals are different in the mixtures Fractionation: This technique is used when boiling point of chemicals are close to each other in the mixtures 9. Mention the formula to calculate pH of a solution? What is the difference between Molarity and Normality? Both techniques are used to the amount of chemical present in the solution. However they are almost similar but differs in Molarity Molarity is used to know the total amount of molecules in a 1 litre solution It is expressed as moles of a compound per litre of solution Normality Normality is used to know the total number of reactive units in 1 litre of solution It is expressed in equivalent per litre A valency is a property of a groups or atoms, equal to the number of atoms of hydrogen that the group or atom could combine with or displace it in forming compounds. Define what makes a molecule into organic molecule? In a molecule when hydrogen atom is less than the ratio of carbon atom, then such molecules are referred as an organic molecule. What is the metal used to extract copper from the solution of copper sulphate? Fe or ferrous is the metal that is used to extract copper from the solution of copper sulphate. What is the chemical composition of fat in human body? Fat found in human body is mainly composed of Glycerides.

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