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Mcq on metals and non metals class 10

1. The non-metal which is liquid at room temperature is:a) Mercuryb) Brominec) Carbond) Helium Attempted 0/15 Correct 0 Score 0 Which property of metals decides how much sound will be produced when a metal is struck? Electrical conductivity Ductility Sonority Density Correct Option: C Explanation: Sonority is a physical property of metals by which sound is produced when a metal is struck. All of the following compounds are non-ionic, except calcium chloride sodium chloride potassium chloride water Correct Option: D Explanation: Non-ionic compounds are those which form covalent bonds by sharing a pair of electrons between two atoms. Water (H₂O) has a covalent bond. Electrical wires are usually made from copper. Which properties of copper make it a suitable choice? i. Malleability ii. High electrical conductivity iii. Sonority iv. Ductility v. Metallic lustre i, ii and iii ii, iv and v i, ii and iv i, iii and iv Correct Option: C Explanation: Copper is used to make electrical wires because it is malleable, ductile, and a good conductor of electricity and heat. Which non-metal is stored in water at room temperature due to its high reactivity? Chlorine Phosphorus Carbon Sulphur Correct Option: B Explanation: Phosphorus is a very reactive non-metal. It catches fire if exposed to air. To prevent the contact of phosphorus with atmospheric oxygen, it is stored in water. Select the material in which non-polar compounds will be soluble. Ethanol Water Butanol Benzene Correct Option: D Explanation: Non-polar compounds are soluble in non-polar solvents. Out of the given solvents, only benzene is non-polar. So, it is the correct answer as like dissolves like. Why does copper turn green after some time when left in open? Due to oxidation of copper Due to reduction of copper Due to displacement reaction Due to rusting Correct Option: A Explanation: Copper turns green because of a process known as oxidation, which is the removal of electrons from the substance. Bronze is made by mixing _____ and _____ to manufacture coins, turbines, blades, etc. 82% copper, 18% tin 88% copper, 12% tin 88% copper, 12% iron 82% copper, 18% iron Correct Option: B Explanation: There are many different bronze alloys, but modern bronze is 88% copper and 12% tin. Which of the following metal and alloy pairs is not a correct combination? i. Steel and Iron ii. Bronze and Tin iii. Brass and Copper i and ii ii and iii i and iii None of these Correct Option: D Explanation: All the given metal and alloy pairs are correct. The given alloys are made up by combining these metals with some other metals. Most of the metals are considered to be very hard, but which of the following is a soft metal which can be easily cut into pieces? Sodium Aluminium Copper Mercury Correct Option: A Explanation: Sodium is a soft metal. It can be easily cut into pieces using a knife. What happens when copper chloride is electrolysed? Copper chloride is broken down to form copper. Chlorine gas is formed. It turns black in colour. Both 1 and 2 Correct Option: D Explanation: If electricity is passed through a copper chloride solution, copper chloride is broken down to form copper metal and chlorine gas. Positively charged ions move to the negative electrode during electrolysis. Which of the following lies in between magnesium and lead in the reactivity series? Correct Option: D Explanation: The reactivity series is a series of metals, in order of reactivity from the highest to the lowest. In this series, zinc lies in between magnesium and lead. Which among the following metals is a bad conductor of heat? Correct Option: B Explanation: Mercury is a bad conductor of heat. A silvery white, light metal reacts with water to give hydrogen gas and burns with a dazzling white flame. Which metal is it? Magnesium Calcium Sodium Aluminium Correct Option: A Explanation: Magnesium is the correct answer. What of the following properties belong(s) to sodium metal? It is a soft metal and can be cut with a knife. It reacts quickly with water and air. It has a low melting point. All of the above Correct Option: D Explanation: Properties of sodium metal are as follows: (1) It is a soft metal and can be cut with a knife. (2) It reacts quickly with water and air. (3) It has a low melting point. Amphoteric oxides are those which react with acids only bases only neither bases nor acids both bases and acids Correct Option: D Explanation: Amphoteric oxides are those which react with both bases and acids. Question 19: Generally, non-metals are not lustrous. Which of the following nonmetal is lustrous? Sulphur Oxygen Nitrogen IodineAnswer: (d) Iodine Question 20: Which one of the following four metals would be displaced from the solution of its salts by other three metals? Mg Ag Zn CuAnswer: (b) Ag Explanation: In the reactivity series of metals, silver is at the bottom among given four metals. Question 21: 2 mL each of concentrated HCl, HNO₃ and a mixture of concentrated HCl and concentrated HNO₃ in the ratio of 3 : 1 were taken in test tubes labelled as A, B and C. A small piece of metal was put in each test tube. No change occurred in test tubes A and B but the metal got dissolved in test tube C respectively. The metal could be Al Au Cu PtAnswer: (b) Au Explanation: A mixture of HCl and HNO₃ in 3:1 ratio is called Aqua regia, which dissolves gold and silver. Question 22: An alloy is an element a compound a homogeneous mixture a heterogeneous mixtureAnswer: (c) A homogeneous mixture Question 23: An electrolytic cell consists of positively charged cathode negatively charged anode positively charged anode negatively charged cathode (i) and (ii) (iii) and (iv) (i) and (iii) (ii) and (iv)Answer: (b) (iii) and (iv) Question 24: During electrolytic refining of zinc, it gets deposited on cathode deposited on anode deposited on cathode as well as anode remains in the solutionAnswer: (a) Deposited on cathode Question 25: An element A is soft and can be cut with a knife. This is very reactive to air and cannot be kept open in air. It reacts vigorously with water. Identify the element from the following Question 26: Alloys are homogeneous mixtures of a metal with a metal or nonmetal. Which among the following alloys contain non-metal as one of its constituents? Brass Bronze Amalgam SteelAnswer: (d) Steel Explanation: Steel is a mixture of iron (metal) and carbon (non-metal). Brass is a mixture of copper and zinc. Bronze is a mixture of copper and tin. Amalgam is a mixture of mercury and any other metal. Question 27: Which among the following statements is incorrect for magnesium metal? It burns in oxygen with a dazzling white flame It reacts with cold water to form magnesium oxide and evolves hydrogen gas It reacts with hot water to form magnesium hydroxide and evolves hydrogen gas It reacts with steam to form magnesium hydroxide and evolves hydrogen gasAnswer: (b) It reacts with cold water to form magnesium oxide and evolves hydrogen gas Copyright © excellup 2014 Free PDF Download of CBSE Class 10 Science Chapter 2 Metals and Non-Metals Multiple Choice Questions with Answers. MCQ Questions for Class 10 Science with Answers was Prepared Based on Latest Exam Pattern. Students can solve NCERT Class 10 Science Metals and Non-Metals Multiple Choice Questions with Answers to know their preparation level. Class 10 Science MCQs Chapter 3 Metals and Non-Metals 1. Aluminium is used for making cooking utensils. Which of the following properties of aluminium are responsible for the same? (i) Good thermal conductivity (ii) Good electrical conductivity (iii) Ductility (iv) High melting point (a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (i) and (iv) Answer Answer: d 2. The most abundant metal in the earth's crust is (a) Iron (b) Aluminium (c) Calcium (d) Sodium Answer Answer: b 3. The poorest conductor of heat among metals is (a) Lead (b) Mercury (c) Calcium (d) Sodium Answer Answer: a 4. Which property of metals is used for making bells and strings of musical instruments like Sitar and Violin? (a) Sonorousness (b) Malleability (c) Ductility (d) Conductivity Answer Answer: a 5. $Al_2O_3 + 2NaOH \rightarrow \dots + H_2O$ (a) $Al(OH)_3$ (b) Na_2O (c) $NaAlO_2$ (d) $AlNaO_2$ Answer Answer: c 6. Which of the following is the correct arrangement of the given metals in ascending order of their reactivity? Zinc, Iron, Magnesium, Sodium (a) Zinc > Iron > Magnesium > Sodium (b) Sodium > Magnesium > Iron > Zinc (c) Sodium > Zinc > Magnesium > Iron (d) Sodium > Iron > Magnesium > Zinc > Iron Answer Answer: d 7. Which of the following pairs will give displacement reactions? (a) FeSO₄ solution and Copper metal (b) AgNO₃ solution and Copper metal (c) CuSO₄ solution and Silver metal (d) NaCl solution and Copper metal Answer Answer: b 8. Non-metals form covalent chlorides because (a) they can give electrons to chlorine (b) they can share electrons with chlorine (c) they can give electrons to chlorine atoms to form chloride ions (d) they cannot share electrons with chlorine atoms Answer Answer: b 9. Which of the following oxides(s) of iron would be obtained on prolonged reaction of iron with steam? (a) FeO (b) Fe₂O₃ (c) Fe₃O₄ (d) Fe₂O₃ and Fe₂O₄ Answer/ Explanation Answer: c Explanation: Reason: $3Fe (s) + 4H_2O (g) \rightarrow Fe_3O_4 (s) + 4H_2 (g)$ 10. Which of the following are not ionic compounds? (i) KCl (ii) HCl (iii) CCl₄ (iv) NaCl (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iii) Answer Answer: b 11. The electronic configuration of three elements X, Y and Z are as follows: X = 2, 4, Y = 2, 7, Z = 2, 1 Which two elements will combine to form an ionic compound and write the correct formula, (a) X₂Y (b) YZ (c) XZ₃

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