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Materials metals and non metals questions and answers

CBSE Science Class 8 Materials: Metals and Non-Metals - Chapter Wise CBSE Solved Question and Answer Based On NCERT There are 92 elements occurring naturally, out of which 70 are metals and about 22 are non-metals some elements show properties of both metals and non-metals they are called metalloids Metals are solid, hard, malleable and ductile Metals have high melting and boiling points and are good conductor of heat and electricity. Non-metals may be solid, liquid or gas, and are not malleable and ductile. Non-metals are sonorous Metals react with acids to produce metal salts and hydrogen gas, generally non-metals do not react with acids Some of the metals react with bases to produce hydrogen gas, non-metals do not react with water Metals like gold, silver, platinum etc. retain their lustre because they do not react with air, water or acids. So they are called noble metals. Both metals and non-metals are used widely in our day to day life Students can practice the NCERT MCQ Questions for Class 8 Science Chapter 4 Materials: Metals and Non-Metals with Answers Pdf free download is available here. Revise all the concepts easily by taking help from the MCQ Questions for Class 8 MCQs Questions with Answers are prepared based on the latest exam pattern. Students can refer to these Materials: Metals and Non-Metals Class 8 MCQs Questions with Answers I. Choose the correct option. Question 1. Metals are (a) shiny (b) hard (c) sonorous (d) all of these Answer Answer: (d) all of these Question 3. Which of the following is a non-metal? (a) Aluminium (b) Oxygen (c) Iron (d) Silver Answer

Answer: (b) Oxygen Question 4. Metalloids possess the properties of (a) metals (b) non-metals (c) both metals and non-metals (d) none of these Answer Answer: (c) potassium Question 6. Non-metals are (a) generally gases (b) generally liquids (c) generally solid and gases Answer Answer: (a) Sodium (b) Magnesium (c) Phosphorus (d) Zinc Answer Answer: (a) Sodium Question 8. Metal oxides are (a) neutral (b) basic (c) acidic (d) all of these Answer Answer Answer: (b) basic Question 9. The non-metal which is liquid at room temperature is (a) bromine (b) chlorine (c) iodine (d) carbon Answer Answer: (a) bromine Question 10. Which substance is used for making pencil lead? (a) Sulphur (b) Silicon (c) Graphite (d) Aluminium Answer Answer: (c) Graphite Question 11. Which non-metal is used in making glass? (a) Graphite (b) Sulphur (c) Silica (d) None of these Answer Answer (a) Aluminium Question 12. Which metal is used in wrapping materials? (a) Aluminium Question 14. The metal found in liquid state is (a) mercury (b) silver (c) Copper (d) None of these Answer Answer: (a) Muminium Question 14. The most ductile metal is (a) silver (b) gold (c) copper (d) aluminium Answer Answer: (b) do not react with water (c) both (a) and (b) (d) none of these Answer Answer: (b) do not react with water (c) both (a) and (b) (d) none of these Answer Answer: (b) do not react with water (c) both (a) and (b) (d) none of these Answer Answer. Potassium (c) Lithium (d) All of these Answer Answer: (d) All of these Answer Answer: (d) All of these Question 17. Which is the hardest substance? (a) Gold (b) Diamond (c) Aluminium (d) None of these Answer Answer: (b) Diamond (c) Aluminium (d) None of these Answer Answer: (d) All of these Answer Answer: (d) All of these Answer Answer Answer: (e) Diamond (f) All of these Answer Answe Answer: (a) hydrogen gas Question 19. In displacement reactive metal. (b) a more reactive metal displaces a more reactive metal displaces a less reactive metal displaces a more reactive metal. (c) both (a) and (b) (d) none of these Answer are used in fertilisers? (a) Nitrogen (b) Phosphorus (c) Both (a) and (b) (d) None of these Answer Answer: (c) Both (a) and (b) II. Fill in the Blanks Question 1. Metals are _____of heat and Answer Answer: good conductors, electricity Question 2. Iodine is a _____having lustre. Answer Answer: non-metal Question 3. ____ explosion. Answer Answer: Sodium, potassium Question 4. Non-metal oxides are _____ in nature. Answer Answer: acidic Question 5. _____ is more reactive than copper. Answer Answer: acidic Question 7. Magnesium forms _____ oxides. Answer Answer: basic Question 8. _____ is less reactive than iron. Answer Answer: Copper Question 9. All metals are hard except _____ and ____ Answer Answer: high Question 11. _____ are used in medicines as antiseptic. Answer Answer: Non-metals Question 12. The only liquid metal is Answer Answer: mercury Question 13. _____ is non-metal used in breathing by all living beings. Answer Answer: Oxygen Question 14. The metal which produces hydrogen gas on reaction with dilute hydrochloric acid as well as sodium hydroxide solution is _____ Answer Answer: aluminium Question 15. ____ Answer Answer: Sodium III. True or False Question 1. Metals are non-sonorous. Answer Answer: False Question 2. Metals react with water. Answer Answer: True Question 4. The only liquid metal is bromine. Answer Answer: False Question 5. Sodium and potassium do not react vigorously with water and oxygen. Answer Answer: False Question 6. Basic solution turns red litmus into blue. Answer Answer: True Question 9. Chlorine is not a non-metal. Answer Answer: False Question 10. Phosphorus is kept in water. Answer Answer: True Question 11. All metals exist in solid form at room temperature. Answer Answer: False Question 12. Rust formed on iron object is acidic in nature. Answer Answer: False Question 13. Aluminium is more reactive than copper. Answer Answer: True Question 14. Non-metals react with water to form a gas which burns with a 'pop' sound. Answer Answer: True IV. Natch the following Column I Column II 1. Malleable (a) Can be transformed into wire 2. Ductile (b) For making crackers 3. Oxygen (c) Give sheets on hammering 4. Copper (d) For disinfecting water 5. Sulphur (e) All living beings inhale during breathing 6. Diamond (f) For making ornaments Answer Answer: Column I Column II 1. Malleable (c) Give sheets on hammering 2. Ductile (a) Can be transformed into wire 3. Oxygen (e) All living beings inhale during breathing 4. Copper (f) For making crackers 6. Diamond (h) Hardest non-metal 7. Sonority (i) Ringing of bells 8. Iron (g) For making rails 9. Chlorine (d) For disinfecting water 10. Platinum (j) Used in making ornaments We think the shed NCERT MCQ Questions for Class 8 Science Chapter 4 Materials: Metals and Non-Metals MCQs Multiple Choice Questions with Answers Pdf free download will benefit you to the fullest. If you need any kind of assistance while practicing CBSE Class 8 Science Materials: Metals and Non-Metals MCQs Multiple Choice Questions with Answers Pdf free download will benefit you to the fullest. If you need any kind of assistance while practicing CBSE Class 8 Science Materials: Metals and Non-Metals MCQs Multiple Choice Questions with Answers Pdf free download will benefit you to the fullest. look into it and add it accordingly. NCERT Solutions for Class 8 Science Chapter 4 - Materials: Metals and Non-Metals from here to prepare for your tests and exams to be held in 2021-2022. You can find here the appropriate answers to the questions given in chapter 4 of the latest NCERT Solutions, you will definitely understand all the concepts clearly and score the desired marls in your Class 8 Science Exam. NCERT Solutions for Class 8 Science Chapter 4 -Materials: Metals and Non-Metals Exercises 1. Which of the following can be beaten into thin sheets?(a) Zinc (b) Phosphorus (c) Sulphur (d) Oxygen Answer: (a) Zinc 2. Which of the following statements is correct?(a) All metals are ductile.(b) All non-metals are ductile.(c) Generally, metals are ductile.(d) Some non-metals are ductile. Answer: (a) Zinc 2. Which of the following statements is correct?(a) All metals are ductile.(b) All non-metals are ductile.(c) Generally, metals are ductile.(d) Some non-metals are ductile. Generally, metals are ductile. 3. Fill in the blanks:(a) Phosphorus is a very reactive non-metal.(b) Metals are good conductors of heat and electricity.(c) Iron is ______ reactive than copper.(d) Metals react with acids to produce ______ gas. Answer: (a) Phosphorus is a very reactive non-metal.(b) Metals are good conductors of heat and electricity.(c) Iron is _____ reactive than copper.(d) Metals react with acids to produce hydrogen gas. 4. Mark 'T' if the statement is true and 'F' if it is false. (a) Generally, non-metals react with acids. (b) Metals are good conductors of heat and electricity.(c) Iron is _____ reactive than copper.(d) Metals react with acids to produce hydrogen gas. 4. Mark 'T' if the statement is true and 'F' if it is false. (a) Generally, non-metals react with acids to produce hydrogen gas. 4. Mark 'T' if the statement is true and 'F' if it is false. (a) False (b) True (c) False (d) False 5. Some properties are listed in the following Table. Distinguish between metals and non-metals 1. Appearance 2. Hardness 3. Malleability 4. Ductility 5. Heat Conduction of Electricity Answer: Properties Metals Non-metals 1. Appearance Lustrous Dull 2. Hardness Hard Soft 3. Malleability Can be beaten into thin sheets Cannot be drawn into wires 5. Heat conductors of heat 6. Conductors of heat 6. Conductors of heat 6. Conductors of heat 7. Conductors of heat 6. Conductor following.(a) Aluminium foils are used to wrap food items.(b) Immersion rods for heating liquids are made up of metallic substances.(c) Copper cannot displace zinc from its salt solution.(d) Sodium and potassium are stored in kerosene. Answer: (a) Aluminium foils are used to wrap food items because aluminium metal is malleable and it can be beaten into thin sheets. (b) Immersion rods for heating liquids are made up of metallic substances because metals are good conductors of heat and electricity. (c) Since only a more reactive metal from its salt in aqueous solution therefore copper which is less reactive than zinc cannot displace zinc from its salt solution. (d) Sodium and potassium are stored in kerosene because they are highly reactive that they vigorously react with oxygen and moisture present in the air. 7. Can you store lemon pickle cannot be stored in aluminium utensils because lemon pickle contains acids that can react with aluminium metal to produce hydrogen gas. Therefore, the pickle will be spoiled. 8. Match the substances given in Column B. A B (i) Gold (a) Thermometers (ii) Hon (b) Electric wire (iii) Aluminium (c) Wrapping food (iv) Carbon (d) Jewellery (v) Copper (e) Machinery (vi) Mercury (f) Fuel Answer: A B (i) Gold (d) Jewellery (ii) Iron (e) Machinery (iii) Aluminium (c) Wrapping food (iv) Carbon (f) Fuel (v) Copper (b) Electric wire (vi) Mercury (a) Thermometers 9. What happens when (a) Dilute sulphuric acid is poured on a copper plate? (b) Iron nails are placed in copper sulphate solution? Write word equations of the reactions involved. Answer: (a) No reaction takes place when dilute sulphuric acid is poured on a copper gets deposited on iron nail. Iron + Copper Sulphate solution. In this reaction, the blue colour of copper sulphate fades and copper gets deposited on iron nail. Iron + Copper Sulphate → Iron Sulphate + Copper 10. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube and shake it well. Now, test the solution with the blue litmus paper and the red litmus paper will be turned red. This shows that the gas is acidic in nature. (b) Charcoal reacts with oxygen to form carbon dioxide gas. Carbon (from Charcoal) + Oxygen → Carbon dioxide 11. One day Reeta went to a jeweller's shop with her mother. Her mother gave an old gold jewellery to the goldsmith to polish. Next day when they brought the jewellery back, they found that there was a slight loss in its weight? Answer: To polish the gold jewellery, it is dipped into an acidic solution called aqua regia (a mixture of hydrochloric acid and nitric acid). On dipping the gold into this acidic solution, the outer layer of gold dissolves and the inner shiny layer appears. Thus, the removal of the outer layer of gold causes a slight loss in its weight. Download NCERT Solutions for all major subjects of Class 8 Science Chapter 4 in PDF Also check the NCERT Books and NCERT Solutions for all major subjects of Class 8 Science Chapter 4 in PDF Also check the NCERT Books and NCERT Solutions for all major subjects of Class 8 Science Chapter 4 in PDF Also check the NCERT Books and NCERT Solutions for all major subjects of Class 8 Science Chapter 4 in PDF Also check the NCERT Books and NCERT Solutions for all major subjects of Class 8 Science Chapter 4 in PDF Also check the NCERT Books and NCERT Books and NCERT Books for All Subjects and NCERT Books and NCERT Books and NCERT Books for All Subjects and NCERT Books and of Class 8 (Latest Editions for 2021-2022) NCERT Solutions for All Subjects of Class 8 (Updated for 2021-2022) Topics and Sub Topics in Class 8 Science Chapter 4 Materials Metals and Non-Metals 4.2 Chemical Properties of Metals and Non-Metals 4.3 Chemical Properties of Metals 4.3 Chemical Properties 6.3 Chemical Pr Non-metals 4.3 Uses of Metals and Non-metals Materials: Metals and Non-Metals Class 8 Science NCERT Textbook Questions Question 1. Which of the following statements is correct? (a) All metals are ductile. (b) All non-metals are ductile. (c) Generally, metals are ductile. (d) Some non-metals are ductile. (d) Some non-metals are ductile. (d) Metals are ductile. (e) Iron is _____ reactive than copper. (d) Metals react with acids to produce reactive (b) good, electricity (c) more (d) hydrogen Question 4. Mark 'T' if the statement is true and 'F' if it is false. (a) Generally, non-metals react with acids. (b) Sodium is a very reactive metal. (c) Copper displaces zinc from zinc sulphate solution. (d) Coal can be drawn into wires. Answer: (a) False (b) True (c) False (d) False Question 5. Some properties are listed in the following Table. Distinguish between metals and non-metals on the basis of these properties. Properties Metals Non-metals 1. Appearance 2. Hardness 3. Malleability 4. Ductility 5. Heat Conduction of Electricity Answer: Properties Metals Non-metals 1. Appearance have metallic lustre dull 2. Hardness hard soft 3. Malleability malleable non-malleable 4. Ductility ductile 5. Heat Conductors bad conductors 6. Give reasons for the following. (a) Aluminium foils are used to wrap food items. (b) Immersion rods for heating liquids are made up of metallic substances. (c) Copper cannot displace zinc from its salt solution. (d) Sodium and potassium are stored in kerosene. Answer: (a) Aluminium is highly malleable and it can be easily beaten in sheets to make its foil for wrapping purposes. It is also soft and does not react with food items. That is why aluminium foils are used . to wrap food items. (b) Immersion rods made up of metallic substances because metals are good conductors of heat and electricity. They get hot very soon on the passage of electric current and warm the water. (c) Copper is less reactive than zinc. So it cannot displace zinc from its solution. (d) Sodium and potassium are highly reactive, so they are stored in kerosene. Question 7. Can you store the lemon pickle in an aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil because aluminium utensil because aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil because aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil because aluminium utensil because aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil? Explain. Answer: No, we cannot store lemon pickle in an aluminium utensil because aluminium ute spoiled. Question 8. Match the substances given in column A with their uses given in column B. A B Gold Thermometers Iron Electric wire Aluminium Wrapping food Carbon Jewellery Copper Machinery Mercury Fuel Answer: (i) (d) (ii) (e) (iv) (f) (v) (h) (vi) (a) Question 9. What happens when (a) Dilute sulphuric acid is poured on a copper plate? (b) Iron nails are placed in a copper sulphate solution? Write word equations of the reactions involved. Answer: (a) No reaction will take place because copper is deposited on the iron nails. Also, the blue colour turns green. Iron + Copper sulphate (solution) → Iron sulphate (solution) + Copper Question 10. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube. (a) How will she find the nature of the gas? (b) Write down the word equations of all the reactions taking place in this process. (a) She can find the nature of the gas by using a wet litmus paper. After bringing the litmus paper in contact with the gas, if it turns the blue litmus paper into red, it is acidic. Similarly, if it turn the red litmus into blue, it is basic. (b) (i) Carbon dioxide (ii) Carbon dioxide (ii) Carbon dioxide (iii) Carbon dioxide (iiii) Carbon dioxide (iiii) Carbon dioxide (iiii) Carbon dioxide (iiii) Carbon dioxide (iii old gold jewellery to the goldsmith to polish. Next day when they brought the jewellery back, they found that there was a slight loss in its weight? Answer: The gold jewellery is dipped into an acidic solution called aqua regia (a mixture of hydrochloric acid and nitric acid) for polishing. On dipping the gold jewellery in the acid solution, the outer layer of gold dissolves and the inner shiny layer appears. This causes a slight loss in its weight. Materials: Metals and Non-Metals Class 8 Science NCERT Intext Activities Solved Activity 1 (NCERT Textbook, Page 44) Take a small iron nail, a coal piece, a piece of thick aluminium wire and a pencil lead. Beat the iron nail with a hammer (Fig. 4.1). (But take care that you don't hurt yourself in the process). Try to hit hard. Hit hard the aluminium wire also. Then repeat the same kind of treatment on the coal piece and pencil lead. Record your observations in Table 4.1. Table 4.1 Malleability of Materials Object/Material Change in Shape (Flattens/Breaks into Pieces) Iron nail Flattens Coal piece Breaks into pieces Aluminium wire Flattens Pencil lead are brittle. Thus, metals are malleable and non-metals are non-malleable. Activity 2 (NCERTTextbook, Page 45) Recall how to make an electric circuit to test whether electricity can pass through an object or not (Fig. 4.2). You might have performed the activity with various objects in Class VI. Now, repeat the activity with the materials mentioned in Table 4.2. Observe and group these materials into good conductors and poor conductors. S. No. Materials Good Conductor/Poor Conductor 1. Iron rod/nail Good conductor 2. Sulphur Poor conductor 3. Coal piece Poor conductors of electricity and non-metals are good conductors of electricity. Activity 3 (NCERT Textbook, Page 46) Let us check the nature of rust formed as a result of the reaction between iron, oxygen and water. Collect a spoonful of rust and dissolve it in a very little amount of water. You will find that the rust remains suspended in water. Shake the suspension well. Test the solution with red and blue litmus paper turns blue which shows that the ngjure of rust is basic. Blue litmus paper do not show any colour change with the solution. Activity 4 (NCERT Textbook, Page 47) (To be demonstrated by the teacher in the class) Take a small amount of powdered sulphur in a deflagrating spoon and heat it. If deflagrating spoon is not available, you may take a metallic cap of any bottle and wrap a metallic wire around it and give it the shape shown in Fig. 4.4 (a). As soon as sulphur starts burning, introduce the spoon into a gas jar/glass tumbler [Fig. 4.4(a)]. Cover the tumbler with a lid to ensure that the gas produced does not escape. Remove the spoon after some time. Add a small quantity of water into the tumbler and quickly replace the lid. Shake the tumbler well. Check the solution with red and blue litmus papers [Fig. 4.4. (b)]. Solution: We observed that the solution of oxide turns the blue litmus red which shows that oxide of non-metals is acidic in nature. Activity 5 (NCERT Textbook, Page 48) Take a 250 mL beaker/glass tumbler. Fill half of it with water. Now carefully cut a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of cotton. Put the sodium metal. Dry it using filter paper and wrap it in a small piece of cotton. Put the sodium metal. Dry it using filter paper and wrap it in a small piece of cotton. Put the sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of cotton. Put the sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of cotton. Put the sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it in a small piece of sodium metal. Dry it using filter paper and wrap it using filter paper and wrap it using filter paper and wrap it using filter paper and wr solution with red and blue litmus papers. Is the solution acidic or basic? Solution: On touching the beaker, it was felt hot. The solution turns the red litmus paper to blue which shows it is basic in nature. Blue litmus paper to blue which shows it is basic in nature. Blue litmus paper do not show any colour change with the solution. Activity 6 (NCERT Textbook, Page 49) Take samples of metals and non-metals given in Table 4.3 in separate test tubes and label them as A, B, C, D, E and F. With the help of a dropper add 5 mL of dilute hydrochloric acid to each test tube gently. Bring a burning matchstick near the mouth of each test tube. Repeat the same activity using dilute sulphuric acid instead of dilute hydrochloric acid. Record your observations in Table 4.3. Solution: This activity shows that metals usually displace hydrogen gas is evolved. Activity 7 (NCERT Textbook, Page 50) Prepare a fresh solution of sodium hydroxide in a test tube by dissolving 3-4 pellets of it in 5 mL of water. Drop a piece of aluminium foil into it. Bring a burning matchstick near the mouth of the test tube. Observe carefully. Solution: We observed that a colourless gas is evolved which burns with a pop sound. This shows that aluminium react with bases on heating to produce hydrogen gas. Activity 8 (NCERT Textbook, Page 50) Take five 100 mL beakers and label them A, B, C, D and E. Take about 50 mL of water in each beaker a teaspoonful of each substance as indicated in Fig. 4.6 (a), (i) Keep the beakers undisturbed for some time, (ii) Record you observations in your notebook. Beaker A: Copper sulphate (CuSO4) + Zinc granule (Zn), Beaker B: Copper sulphate (CuSO4) + Iron nail (Fe) Beaker C: Zinc sulphate (ZnSO4) + Copper turnings (Cu) Beaker E: Zinc sulphate (ZnSO4) + Iron nail (Fe) Solution: In beaker C: Zinc sulphate (ZnSO4) + Iron nail (ZnSO4) + Iron na colour of copper sulphate changes to colourless and a powdery red mass of copper from its solution. That is why the blue colour of copper sulphate changes to green colour of ferrous sulphate. In beaker C, D and E no change in colour or heat evolution is observed. This indicates that the metals are unable to displace the other metals from its solution. NCERT Solutions for Class 8 Science Chapter 4 - 1 Mark Questions and Answers Question 1. Non-metals cannot be drawn into More. Question 5. are the good conductors of heat and electricity. Answer: Metals. Question 6. Examples of mon-metals are and Answer: Sulphur, chlorine and oxygen. Question 8. Explain the term 'metallurgy'. Answer: Metallurgy is the science of extracting metals from their ores and purifying them for various uses. Question 9. State general steps involved in metallurgy of a metal. Answer: The general steps of metallurgy of a metal. Answer: Harder. Question 11. Most non-metals are (bad/good) conductors of heat. Answer: Bad. Question 12. The property that allows the metals to be hammered into thin sheets is called (ductility/ malleability). Answer: Malleability, Metals/non-metals) display lustre. Answer: Metals. Question 15. Arrange the following metals in the order of their decreasing chemical activity: magnesium, iron, gold. Answer: Potassium, iron, gold. Answer: Potassium, iron, gold. Answer: Potassium, iron, gold. Answer: Potassium, iron, gold. Answer: Metals. Question 15. Arrange the following metals in the order of their decreasing chemical activity: magnesium, iron, gold. Answer: Potassium, iron, gold. Answer: Metals. Question 16. Can copper displace iron from iron sulphate because is less reactive than iron. Question 17. (Platinum/iron) is the member of the family of noble metals. Answer: Platinum iridium, Question 18. Pure gold is (24/100) carats. Answer: Platinum-iridium, Question 19. International standards of weights are made of (gold-silver/platinum-iridium) alloy. Answer: Platinum-iridium, Question 19. International standards of weights are made of (gold-silver/platinum-iridium) alloy. solution of silver nitrate). Answer: Aqua regia. Question 21. Silver tarnishes due to (nitrogen oxides/hydrogen sulphide) in the air, Answer: Hydrogen sulphide. Question 22. Why is aluminium used in making aeroplanes? Answer: Hydrogen sulphide in the air, Answer: Hydrogen oxides/hydrogen sulphide) in the air, Answer: Hydrogen sulphide aircrafts demand the most. Question 23. What type of oxides are formed by metals? Answer: Mon-metals form basic oxides. Question 24. What type of oxides are formed by non-metals? Answer: Phosphorus occurs in nature in the combined state as it has strong affinity for oxygen. Question 26. Give the different forms of silica in nature as ordinary sand, flint, guartz and opal. Question 27. Which metal foil is used in packing of some medicine tablets? Answer: Sodium or potassium. Question 29. Name the non-metal used in vulcanization. Answer: Sulphur. Question 30. Name one metal which is not malleable. Answer: Zinc or arsenic. Question 31. Name one mon-metal which has lustre. Answer: They will get rusted. Question 33. Name the element commonly used for converting edible vegetable oils into vanaspati ghee. Answer: Hydrogen. Question 34. Name the element used for making radiators of cars? Answer: Copper. Question 36. Name the metal whose salt is used for making the element used for making radiators of cars? Answer: Copper. Question 36. Name the element used for making radiators of cars? photographic films. Answer: Silver. NCERT Solutions for Class 8 Science Chapter 4 - 2 Mark Question 1. White phosphorous is to be kept in water to prevent its contact with air because it is highly reactive. Question 2. Can you store lemon pickle in an aluminium utensils? Explain. [NCERT] Answer: We cannot store acidic food stuffs in aluminium utensils because aluminium reacts with acids. The food gets spoilt. Question 3. One day Reeta went to a jeweller's shop with her mother. Her mother gave an old gold jewellery to the goldsmith to polish. Next day when they brought the jewellery back, they found that there was a slight loss in its weight. Can you suggest a reason for the loss in weight? [NCERT] Answer: The goldsmith must have dissolved in it. Therefore, there was loss in weight of the jewellery and some gold must have dissolved in it. Therefore, there was loss in weight of the jewellery. Question 4. Write short notes on Metallurgical processes Uses of common metals and nonmetals Noble metals Answer: Metallurgical process can be divided into following steps: Concentration of the ore Reduction of metals - for making machinery, automobiles, industrial gadgets, building, bridges, cooking utensils, electrical gadgets, jewellery, sheets. Uses of non-metals - oxygen is used by plants and animals for their survival, nitrogen is used by plants for their growth, chlorine is used for making sulphuric acid, tincture iodine has antiseptic properties. Noble metals - Gold, silver and platinum are noble metals. They occur free in nature . and maintain their lustre for a long time. Platinum, gold and silver are used for making jewellery as they do not tarnish. Question 5. Purity of gold = 100/24 15 carat purity of gold = (100*15)/24 = 62.5 % Question 6. Give two uses of sulphur in chemical industry, Answer: It is used in the manufacture of sulphur useful in agriculture? How is sulphur useful in medicine? Answer: Sulphur powder is an excellent insecticide and fungicide. It is used in spraying fruit trees. Sulphur is the main constituent of skin ointments. Metallic sulphides of sulphur are used for making coins. Silver salts (silver bromide and silver iodide) are used for making photographic films. Question 9. Give two uses of gold. Answer: Gold is used for making ornaments. Gold foils are used in the preparation of Ayurvedic medicines. Question 10. Give two uses of platinum as catalytic agent. Question 11. Which of the following will form acidic oxide and why: P, K, Na, Ca? Answer: P (Phosphorus) will form acidic oxide because it is a mon-metal. Question 12. You are given two materials X and Y. On hammering X is flattened, but Y breaks. Which one is a metal because it flattens, i.e., it is malleable. Question 13. There are four materials A, B, C and D. A and D are hard and shiny, but B and C are dull and not very hard. Identify the metals and non-metals from A, B, C and D. Answer: A and D are metals. B and C are non-metals from carbon. Will he succeed? Give reason also. Answer: No, he will not succeed because sulphur and carbon are non-metals. Non-metals are not ductile, that is, they cannot be drawn into wires. NCERT Solutions for Class 8 Science Chapter 4 - 3 Mark Questions and Answers Question 1. Identify the most reactive metal amongst the followings: Al, K, Cu, Au. An iron knife kept dipped in blue copper sulphate solution changes to light green. Why? Write the equation also, IKVS 2005] Answer: Most reactive metal is Au. An iron knife kept dipped in blue copper sulphate solution changes to light green because iron replaces copper from copper sulphate and forms iron sulphate. This happens because iron is more reactive than copper. Fe + CuSO4 ——> FeSO4 + Cu Question 2. Give reasons, why: Silver is used in jewellery. Copper is used in electrical wiring. Sodium is stored in kerosene oil. Answer: Silver does not corrode and it is malleable and ductile, therefore, it can be used in jewellery. Copper is used in electrical wiring because it is a good conductor of electricity. Sodium has low ignition temperature. It oxidises quickly and bums when exposed to air. It can only be stored in a liquid hydrocarbon like mineral oil or kerosene oil. Question 3. Taking examples of magnesium bums in oxygen to form magnesium oxide, which dissolves in water to form sulphur dioxide, which dissolves in water to form sulphurous acid - an acid which turns blue litmus into red. S + O2 — > Mg(OH)2 Magnesium hydroxide changes red litmus into blue. Sulphur bums in air to form sulphur dioxide, which dissolves in water to form sulphurous acid - an acid which turns blue litmus into red. S + O2 — > SO2 SO2 + H2O ——-> H2SO3 Question 4. Compare the following chemical properties of metals form cations whereas non-metals form anions. Action with dilute acids. Metals react with dilute mineral acid to liberate hydrogen. Non-metals form cations whereas non-metals form anions. Action with dilute acids. Metals react with dilute mineral acid to liberate hydrogen. Non-metals form anions. metals do not react with dilute mineral acids. Action with hydrogen but non-metals react with hydrogen but non-metals react with hydrogen but non-metals react with hydrogen to form hydrides. NCERT Solutions for Class 8 Science Chapter 4 - 5 Mark Questions and Answers Question 1. What happens when [KVS 2008] (a) Hydrochloric acid is poured on aluminium foils? (b) Sodium is placed in water? (c) Sulphur dioxide is dissolved in water? (Write the chemical equation of the reaction involved) Answer: Question 2. A copper spoon had fallen into a containing dil.HCl. What would happen to it in three days time? [DAV2008] Give reasons for the following: Metals are used for making bells. We can't use pure gold to make jewellery. A metal ribbon bums in air with bright white light and forms a white powder. Which metal is this? Give the equation of the reaction taking place. The metallic oxide formed would be acidic or basic in nature? Answer: Nothing will happen as copper does not react with hydrochloric acid. Metals have the property of sonorosity so they are used for making bells. Pure gold cannot be used for making jewellery because it is very soft. Magnesium. 2Mg + O2 ——> 2MgO Basic in nature. Question 3. Give reasons for the following: [KVS 2007] Silver is used in making mirrors. Aluminium is used to make electrical wire. Iron is used in construction of bridges and houses. Graphite is used as an electrode in the dry cell. Iron sheets are galvanised before use. Answer: Silver has the ability to reflect light, therefore, it is used for making mirrors. Aluminium is a good conductor of electricity, so, it is used for making mirrors. Aluminium is a good conductor of electricity, so, it is used for making mirrors. conductor of electricity, therefore, it is used as an electrode in dry cell. Iron sheets are ductile. Some non-metals are ductile. ductile. Question 5. Fill in the blanks : [NCERT] Phosphoms is a very non-metal. Metals are gas. Answer: reactive good, electricity more hydrogen. Question 6. Mark 'T' if the statement is true and 'F' if it is false. [NCERT] Generally, non-metals react with acids. () Sodium is a very reactive metal. () Copper displaces zinc from zinc sulphate solution. () Coal can be drawn into wires. () Answer: Question 7. Some properties are listed in the following Table. Distinguish between metals and non-metals on the basis of these properties. [NCERT] Properties Metals Non-metals 1. Appearance 2. Hardness 3. Malleability 4. Ductility 5. Heat conduction 6. Conduction 6. Conduction of electricity Answer: Properties Metals Non-metals 1. Appearance Solid at room temperature except mercury. They are either solids or gases except bromine (liquid). 2. Hardness They are hard They are brittle. 3. Malleability Malleabile Non-malleable 4. Ductility 5. Ductile Non-ductile 5. Heat conductors Bad conductors Bad conductors Good conductors Bad conductors Question 8. Give reasons for the following: [NCT 2010] Aluminium foils are used to wrap food items. Immersion rods for heating liquids are made up of metallic substances. Copper cannot displace zinc from its saltransport from its solution. Sodium and potassium are stored in kerosene. Answer: Aluminium is a highly malleable metal and can be made into foils. So, it can be used for making immersion rods. Copper is less reactive than zinc. Therefore, it cannot displace zinc from its salt solution. Sodium and potassium are highly reactive metals. On exposure to air, they get oxidized. To avoid this they are stored in kerosene. Question 9. Match the substances given in Column I (a) Gold (i) Thermometers (b) Iron (ii) Electric wire (c) Aluminium (iii) Wrapping food (d) Carbon (iv) Jewellery (e) Copper (v) Machinery (f) Mercury (vi) Fuel Answer: Column I (a) Gold (b) Iron (c) Aluminium (d) Carbon (e) Copper (f) Mercury (iv) Jewellery (v) Machinery (iv) Jewellery (v) Machinery (iv) Jewellery (v) Machinery (iv) Jewellery (v) Machinery (iv) Fuel (iv) Fue Iron nails are placed in copper sulphate solution? Write word equations of the reactions involved. Answer: When sulphate and hydrogen gas are produced. Copper sulphate and hydrogen gas are produced. Copper sulphate and hydrogen gas are produced. copper are formed. Iron + Copper sulphate ----> Iron sulphate + Copper Question 11. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube. [NCERT] (a) How will she find the nature of gas can be found by passing it lime water, which will turn milky. Question 12. List different uses of metals that you come across in everyday life. Answer: Metals are used for making machinery automobiles, aeroplanes, trains, etc. pins, cooking utensils, electrical gadgets. electrical wires. thin sheets used for making machinery automobiles, aeroplanes, trains, etc. pins, cooking utensils, electrical gadgets. appropriate words from the brackets and complete the statements. Noble gases are found in (free state/compound forms). Non-metals are generally (malleable/brittle). Potassium after combustion will form (acidic oxide/basic oxide) as major constituent. Answer: Free state Brittle Basic oxide Iodine Copper Question 14. State whether the following statements are True or False: Sodium is more reactive than magnesium. Magnesium reacts with cold water. All metals exist in solid form at room temperature. Question 15. From among the set of metals — sodium, zinc, iron, copper, silver, select the following giving equations for each reaction: (a) Two metals which will liberate hydrogen from water. (b) One metal which will displace copper from copper sulphate solution. (d) One metal which will not displace copper from copper sulphate solution. Answer: Question 16. Name one metal which floats on water, reacts with it and forms an alkali. (b) A metal that displaces silver from silver nitrate solution. (c) A metal which is used for galvanising iron. (d) A metal that reacts with oxygen without burning. (e) A metal that bums in oxygen without burning. (e) A metal that bums in oxygen without burning. (e) A metal that bums in oxygen without burning. (e) A metal that bums in oxygen without burning. (e) A metal that bums in oxygen without burning. (e) A metal that bums in oxygen without burning. with cold water? Which gas will be liberated when metals react with oxygen when heated? Which of the metals become black in the presence of hydrogen zinc, magnesium Silver NCERT Solutions for Class 8 Science Chapter 4 MCQs Question 1. Which of the following properties is generally not shown by metals? (a) Ductility (b) Sonorous (c) Dullness (d) Electrical conduction Answer: (c) Question 3. The ability of metals to be drawn into wires is known as (a) ductility (b) conductivity (c) malleability (d) sonorousity Answer: (a) Question 5. Galvanisation is a method qf protecting iron from rusting by coating with a thin layer of (a) silver (b) galium (c) zinc (d) aluminium Answer: (c) Question 6. The most abundant ihetal in earth crust is (a) Cu (b) Al (c) Fe (d) Zn Answer: (b) Question 7. An alloy is (a) a compound (b) a heterogeneous mixture (c) a homogeneous mixture (d) an element Answer: (b) Question 9. Alloys are homogeneous mixtures of a metal with a metal or nonmetal. Which among the following aljoys contain non-metal as one of its constituents? (a) Amalgam (b) Brass (c) Bronze (d) Charcoal Answer: (d) Question 11. Which among the following alloys contain mercury as one of its constituents? (a) Alnico (b) Solder (c) Stainless steel (d) Zinc Amalgam Answer: (d) Question 12. Which of the following methods is suitable for preventing an iron frying pain from rusting? (a) Applying grease (c) Applying greate (d) Question 13. Generally, non-metals are not conductors of electricity, which of the following is a good conductor of electricity? (a) Fullerenes (b) Graphite (c) Diamond (d) Sulphur Answer: (a) Question 14. Food cans are coated with tin and not with zinc because (a) zinc is more reactive than tin (b) zinc is more reactive than tin (c) zinc is more reactive than tin (d) zinc has a higher melting point than tin Answer: (a) Question 15. Electrical wires have a coating of an insulating materials. The material, generally used is (a) sulphur (b) Phosphorus (c) Carbon (d) Bromine Answer: (d) More CBSE Class 8 Study Material

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