CHEMISTRY WORKSHEET

Prepared by Effoi Assignment Helper

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I. Write "True" if the statement is correct or "false" if it is incorrect

_____ 1. The type of iron that is obtained directly from blast furnace is wrought iron.

_____ 2. The hardness of steel depends on the amount of carbon it contains.

_____ 3. Chlorine is manufactured on industrial scale by electrolysis.

_____ 4. Ceramic is not manufactured in Ethiopia.

_____ 5. Copper does not exist as a free metal in nature.

II. Match the following compounds under column ``A'' with their common names under column ``B''

A	B
_____ 6. KOH	A. washing soda
_____ 7. $Na_2CO_3.10H_2O$	B. slaked lime
_____ 8. $FeCuS_2$	C. baking powder
_____ 9. $MgCO_3.Caco_3$	D. dolomite
_____ 10. $CuCO_3.Cu(OH)_2$	E. caustic potash
	F. malachite
	G. chalcopyrite

III. Choose the correct answer for the following questions

_____ 11. Of the following substances which is not a natural resource?

A. Stone C. soil

B. Glass D. Metal ore

_____ 12. Which of the following natural resources is non-renewable?

A. Animals C. water

B. Plants D. petroleum

_____ 13. The metal ranking first in global consumption is;

A. Aluminum C. copper

B. Iron D. sodium

_____ 14. Which of the following is not a mineral ore of copper?

A. chalcocite C. siderite

B. chalcopyrite D. malachite

_____ 15. Aluminum metal is not used;

A. To make electric cables

B. To produce alloys for air craft construction

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C. To make cooking utensils

D. To absorb dangerous rays in atomic stations

16. Which element is the constituent of all the types of glass?

A. Boron C. chromium

B. silicon D. Iron

17. The element that does not occur freely in nature is;

A. Nitrogen C. sulfur

B. phosphorus D. copper

18. Which of the following chemicals is used as a bleaching agent in the manufacture of pulp and paper?

A. sodium bisulphate C. chlorine

B. sulfur dioxide D. hydrogen peroxide

19. Which of the following chemical is not used for food preservation?

A. table salt C. sodium hydroxide B. sulfur trioxide D. sodium benzoate

20. Which of the following is not a land pollutant?

A. Chlorofluoro carbons

B. Industrial wastes

C. Manucipal wastes

D. Plastic materials

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21. The substance used to bleach the brown color in the process of sugar production is;

A. Calcium chloride C. Sulfur dioxide

B. Potassium chlorate D. Quick lime

22. The first three most abundant metallic elements in the earth's crust are;

A. Al, Fe, Ca C. Al, Fe, Mg

B. O, Si, Al D. Fe, Ca, Mg

23. ~~Compou~~nds that occur widely in glass, Cement and Ceramics are;

A. Nitrates C. Carbonates

B. Phosphates D. Silicates

24. The substances that deplete the ozone layer and increase the global temperature are;

A. Smoke and dust C. Exhaust of petrol engines

B. Chlorofluoro carbons D. Oxygen

25. Which one of the following non-metals exists as a molecule consisting of eight atoms at room temperature?

A. Oxygen C. Nitrogen

B. Sulfur D. chlorine

26. A lightning flash through the air may result in the formation of;

A. Ammonia C. Carbon monoxide

B. Carbon dioxide D. Nitric oxide

27. Super- heated water is used in the Frasch process to;

A. Clean the pipes C. Oxidize sulfur

B. Dissolve the impurities D. Melt the sulfur

28. What are the main raw materials used in the production of Portland cement?

A. Limestone and clay C. Silica and soda lime

B. Clay and feldspar D. Soda lime and limestone

29. Materials that are valuable on earth for people to use and available in nature is?

A. Plastics C. thermosetting materials

B. rubbers D. natural resources

30. Which of the following non-metals is the most abundant in the earth's crust?

A. Hydrogen C. Oxygen

B. Nitrogen D. Carbon

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31. Most of the steel for world consumption is produced by which process?

A. The Bessemer C. The electric-arc

B. The open hearth D. The Blast furnace

32. Which of the following metals is the best conductor of electricity?

A. Copper C. Gold B. Silver D. Aluminum

33. Which of the following is not the use of $CaCO_3$? A. It is used in the production of quick lime.

B. It is used in the production of cement.

C. It is used in the manufacture of solar cells.

D. It is an important raw material for glass production.

34. Which one of the following is not water pollutant?

A. Fertilizers

B. Warm water from industries

C. Sewages

D. Carbon monoxide

_____35. The process of heating limestone, alumina and silica at high temperature is;

A. Roasting C. Dressing

B. Leaching D. Calcination

_____36. Given formula of a functional group C-C-C an organic compound that has this functional group is classified as;

A. a ketone C. an aldehyde

B. an ester D. an acid

_____37. Which of the following is the first synthetic organic substance?

A. Ethanol C. Methane

B. Benzene D. Urea

_____38. The general name given to organic compounds containing only carbon and hydrogen is;

A. Ketones C. Hydrocarbons

B. Esters D. Alcohols

39. 2- Methyl butane is another name for;

_____

A. Isopentenyl C. Normal pentane

B. Neopentane D. Isobutene

_____ 40. Ethyl acetate can be prepared by the reaction of ethanol and:

A. Ethanol C. Ethanoic acid

B. Methanoic acid D. 2-propanone

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41. Which of the following is an amphoteric oxide?

_____

A. Na_2O_2 C. SnO_2 B.

P_4O_{10} D. CaO

_____42. Which of the following oxides forms basic solution in water?

A. BaO C. Al_2O_3

B. CO D. SO_2

_____43. The gas produced when zinc reacts with dilute HCl solution is;

A. Oxygen C. Chlorine

B. Hydrogen D. Water

_____44. When a metal is subjected to corrosion, it acts as;

A. a source of electrons C. an electrolyte

B. a cathode D. an oxidizing agent

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45. Which of the following electro chemical cells is used in automobiles?

A. Fuel cells C. lead- storage battery

B. NICAD battery D. Leclanche cell Give short answers for the following questions.

46. What is the name of the process that aluminum can be produced in industry?
47. What property of aluminum makes it preferably best for construction of air plane frame work?
48. What is thermite reaction?
49. What are the two important allotropes of phosphorus? Which one is more stable?
50. Describe the similarity and difference between clinker and OPC.
51. What is Ceramics?
52. Write at least three traditional ceramics
53. Write the reactions that occur in the kiln during cement production.
54. Compare and contrast between cement clinker and setting cement.
55. What is vulcanization?
56. Write the steps required to produce copper from chalcopyrite.
57. Explain the difference between rust and verdigris.
58. Compare and contrast the difference between oxidation and disproportionate reactions.
59. Describe the main applications of copper metal in home and industry.
60. Explain the occurrence of nitrogen.
61. Describe how nitrogen is produced both in industry and laboratory.
62. Is nitrogen reactive or unreactive? Explain your answers with examples.
63. What are the uses of liquid nitrogen?
64. Does phosphorus exist in a native form? Why?
65. List some ores of phosphorus.
66. What are allotropes? Compare and contrast the difference and similarities between the allotropes of phosphorus.
67. List some chemical and physical properties of phosphorus.
68. Explain about laboratory and industrial preparation of oxygen.
69. List uses of oxygen.
70. Write the difference between Rhombic, monoclinic and plastic forms of sulphur.
71. Explain the role of carbon dioxide and quick lime in sugar production.
72. Compare and contract mechanical pulping and chemical pulping.
73. What is the purpose of bleaching and what are the appropriate bleaching chemical substances during paper production?
74. During reefing of sugar the appropriate bleaching agent is _____
75. What are the two main raw materials for sugars production?

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