

Chemistry, 2012 EC, Grade 8 model exam

Grade 8 · Chemistry · 2012 E.C.

Time allowed: 120 minutes

Questions: 58

Total marks: 58

Name _____ Grade _____ ID No. _____ Date _____

1. The essence of chemistry concerned mainly with (1)
 - A. Searching for solution to problem making
 - B. Relying only an experimental proved facts
 - C. Production of new materials of desirable properties
 - D. All

2. In Ethiopia caustic soda is manufactured in (1)
 - A. Addis Ababa
 - B. Zeway
 - C. Wenji
 - D. Awash Melkasa

3. Which properties of substance is measurable? (1)
 - A. color
 - B. odor
 - C. taste
 - D. density

4. A chemical change is characterized by:- (1)
 - A. energy change is involved
 - B. no change in composition
 - C. no change in the mass of the substance is involved
 - D. the change is easy to reverse

5. What is the formula name of Cu_2O ? (1)
 - A. Copper (II) oxide
 - B. copper peroxide
 - C. Copper (I) oxide
 - D. copper (III) oxide

6. What does "X" represent in the following reaction? $\text{Al}_2\text{O}_3 + 2\text{NaOH} \rightarrow \text{X} + \text{H}_2\text{O}$ (1)
 - A. $\text{Al}(\text{OH})_3$
 - B. AlH_3
 - C. $\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$
 - D. NaAlO_2

7. Substances that take part in a chemical reaction is called? (1)
 - A. subscript
 - B. products
 - C. reactants
 - D. None of the above

8. What is the chemical formula of Barium phosphate? (1)
 - A. $\text{Ba}(\text{PO}_4)_2$
 - B. BaPO_4
 - C. $\text{Ba}_3(\text{PO}_4)_2$
 - D. Ba_2PO_4

9. The liquid which passes through the filter paper is? (1)
 - A. Filter paper
 - B. funnel
 - C. residue
 - D. filtrate

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10. Which one of the following technique is used to get a cup of clear coffee as it is poured from coffee Pot (jebena)? (1)
- A. Filtration
B. decantation
C. distillation
D. evaporation
-
11. A block of iron metal occupies a volume of 20 cm^3 and has a density of 7.86 g/cm^3 . What is the mass of iron? (1)
- A. 1572g
B. 157.2g
C. 15.72g
D. 1.752g
-
12. The coefficient "3" in the formula 3P_4 represents:- (1)
- A. 3 atoms phosphorous
B. 4 molecules of phosphorous
C. 3 molecules of phosphorous
D. 12 molecules of phosphorous
-
13. Which of the following is the only liquid metallic element? (1)
- A. Bromine
B. chlorine
C. mercury
D. hydrogen
-
14. Which one of the following is TRUE about properties of acid? (1)
- A. acids have bitter taste
B. acids change the color of phenolphthalein into colorless
C. acids have a pH value greater than seven (7)
D. acids change red litmus into blue
-
15. Which one of the following is not a metalloid? (1)
- A. silicon
B. arsenic
C. bromine
D. boron
-
16. Magnesium has a valence number of "2" and nitrogen has a valence number of "3" what is the chemical formula for Magnesium nitride? (1)
- A. Mg_2N_3
B. Mg_3N
C. Mg_3N_2
D. MgN
-
17. Which one of the following is not a homogeneous mixture? (1)
- A. sea water
B. soft drink
C. brass
D. dusty air
-
18. Which pair of liquids are immiscible liquids? (1)
- A. vinegar and water
B. oil and water
C. water and alcohol
D. none of the above
-
19. A pure substance composed of two or more elements that are combined chemically in a definite proportion by mass is called (1)
- A. element
B. mixture
C. compound
D. none
-
20. The temperature at which gas (vapor) directly changes into solid is called? (1)
- A. sublimation
B. evaporation
C. deposition
D. condensation

31. The horizontal rows of elements in the periodic table are called:- (1)
- A. Group
B. Coefficient
C. period
D. Subscript
32. Which one of the following subatomic particles has the smallest mass? (1)
- A. Proton
B. Neutron
C. Electron
D. Nucleus
33. How many electrons does O^{-2} have? (1)
- A. 10
B. 8
C. 6
D. 2
34. What are the number of proton, electron and neutron in ${}^{24}_{12}\text{Mg}^{+2}$ respectively? (1)
- A. 12,10,12
B. 12, 14, 12
C. 12,12,12
D. 14,12,12
35. An element with atomic number 23 is found in (1)
- A. group IIIA and period 4
B. group VA and period 4
C. group IVA and period 4.
D. group 4 and period V
36. The atomic number of chromium is 24. How many electrons are contained in its third energy level? (1)
- A. 18
B. 8
C. 32
D. 2
37. The sum of protons and neutrons in an atom is called; (1)
- A. Atomic number
B. Mass number
C. Atomic mass
D. None of the above
38. The common name of group VIIIA element is..... (1)
- A. Noble gas
B. Chalcogen
C. Halogens
D. Alkaline earth metals
39. Across a period atomic size of the elements..... (1)
- A. Increase
B. remains the same
C. Decrease
D. Increase and decrease
40. Which one of the following is inorganic compound? (1)
- A. animal fat
B. sugar
C. vinegar
D. carbon dioxide
41. Which of the following hydrocarbon used to produce oxyacetylene flam? (1)
- A. Octane
B. Decane
C. Ethene
D. Ethyne
42. The mixture of carbon monoxide and hydrogen gas is produce (1)
- A. water gas
B. producer gas
C. biogas
D. methane

54. Which of the following statements does not describe gold? (1)

- A. it is an excellent conductor
- B. it does not exists as free element in nature
- C. It does not react with oxygen in the presence of moist air
- D. it has a yellow color

55. Which of the following alloys does not contain copper? (1)

- | | |
|----------------|--------------------|
| A. brass | B. bronze |
| C. Cupronickel | D. steenless steel |

56. Which of the following elements does not have an allotropic forms? (1)

- | | |
|------------|---------------|
| A. sulphur | B. phosphorus |
| C. carbon | D. Nitrogen |

57. Which one is not the important ore of Aluminum? (1)

- | | |
|-------------|-------------|
| A. corundum | B. Bauxite |
| C. Sylvite | D. Cryoline |

58. Which of the following Nonmetallic element are solid at room temperature? (1)

- | | |
|-------------|-------------|
| A. Fluorine | B. Bromine |
| C. Iodine | D. Chlorine |

— END OF EXAMINATION —

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