Addis Ababa city administration lideta sub city wereda 09
Administration education office Ledetalimat primary school
1st semester grade 8 General science model exam year 2015 E.C
/Time allowed 60 minute/

DIERCTION:choose the **correct** answer from the given alternative and write your choice on the attached separate answer sheet **(1 point each)**

-------1.The difference between fundamental and derived units is

A. fundamental big in value but derived units are small

B. fundamental units are derived from derived units

C. Derived units are derived from fundamental units

D. There is no difference between them

------2.Which one of the following is a fundamental physical quantity?

A. Area B. Mass C. Force D. Volume

------3. Organic compounds must be contain.

A. Oxygen B. nitrogen C. Hydrogen D. Carbone

-----4. Which is the correct molecular formula of pentene?

A.C_5H_8 B.C_5H_{10} C.C_5H_{12} D.C_5H_{14}

-----5. Which one Steps of the scientific methods come first?

A. question B. hypothesis C. background D. conclusion

-----6. The compound C_2H_2 belongs to the series of hydrocarbons with the general formula.

A. C_nH_n B.C_nH_{2n} C.C_nH_{2n-2} D.C_nH_{2n+2}

----7.Which organic compound is used to cutting and welding of steel and iron?

A. Ethanol B. Ethanoic acid C. Propane D.Ethyne

------8. When magnesium and hydrochloric acid react, they produce

A. Oxygen and magnesium chloride B. Chlorine magnesium oxide

C. Hydrogen and magnesium chloride D. hydrogen and magnesium oxide

-------9. Why is force classified under derived physical quantity?

A. Because it is calculated by combining only one basic quantity

B. Because it is calculated by combining two basic quantities.

C. Because it is calculated by combining three basic quantities

D. Because it is calculated by combining four basic quantities.

------10.1000 meter is equal to_____

A. 1,000,000 km B. 10,000 km C. 1,000,000 km D. . 1 km

-------11.In the following reaction, identify the salt formed

$NH_4OH(aq) + H_2SO_4(aq) \longrightarrow$ ---------- + H2O (aq)

A.NH_4NO_3 B.$(NH4)_2SO_4$ C.$(NH_4)_3PO_4$ D.$(NH_4)_2S$

----12.How many electrons, protons and neutrons respectively are there in an element $^{70}{}_{31}X$?

A.30, 30, 40 B. 31, 31, 39 C. 33, 33, 37

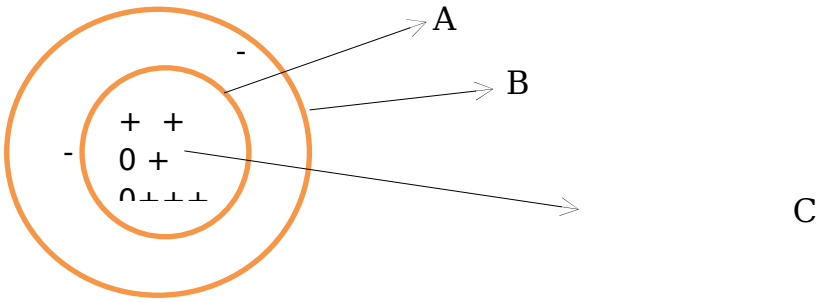
D. 35, 35, 35

-----13.Which of the following is an explanation for the differences between elements and

Compounds?

A. Elements are pure substances while compounds are not.
B. Elements are the simplest type of matter while compounds consist of elements
C. Elements are composed of one kind of atom while compounds are mixtures of elements.
D. Compounds arecomposed of two or more elements while elements are composed of two or more different atoms.

Based on the diagram below answer question number 26



------14.The structure of an atoms Letter “C “ represents

A. Electron B. Proton C. Neutron D. Element

------15.Why elements can NOT be broken down into simpler substances whereas

Compounds can be done so?

A. Because elements have variable compositions where as compounds retain their properties or identities.
B. Because elements can be separated by physical means where as compounds are formed as a result of physical change.
C. Because elements release energy in the form of heat or light where as compounds do not release heat or light energy.
D. Because elements are composed of one type of atom whereas compounds are composed of two or more kinds of atoms.

---------16.The general formula for the alkyne series is

A. C_nH_n B.C_nH_{2n} C.C_nH_{2n+2} D.C_nH_{2n-2}

-----17.What is the number of hydrogen atoms in a molecule of ethyne?

A.6 B.2 C.8 D.4

------18. Which one is correct math with their function?

A. sudoriferous gland- produce ear wax
B. ceruminous gland- release oil
C. mammary gland- produce breast milk
D. sebaceous gland- excreta sweat

-------19. Which of the following lists of substances represents diatomic molecules?

A. Helium, Neon, Argon B. Carbon, Sulphur, Phosphorus

C. Oxygen, Chlorine, Iodine D. Krypton, Xenon, Radon

-----20.Which one of the following is Democritus's ancient debate about the nature of matter?

A. Matter is discrete. B. Matter is infinitely divisible.

C. Matter is continuous. D. Atom does not exist.

-------21. The formula for sulfuric acid is.

A.H_2SO_3 B.H_2SO_4 C.H_2S D. HCl

------22. 12.One among the following is indigenous measurement of mass

A .Kg B. Km C. Feresula D. Hand Span

-----23.Which of the following is **not** true about an atom?

A. The nucleus of an atom contains neutrons and protons.

B. Almost all the mass of an atom is in the nucleus.

C. Electrons in shells revolve around the nucleus

D. The numbers of protons and electrons in an atom are different.

-------24. When water solutions of an acid and base are mixed

A. no reaction occurs B .a new acid and a new base are formed

C. a salt and water are formed D. an acid and a salt are formed

-----25.How are atomic number and mass number defined respectively?

A. Number of subatomic particles and mass of subatomic particles.

B.Number of electrons and mass of protons

C.Number of protons plus number of electrons and mass of neutrons.

D.Number of protons and number of protons plus number of neutrons

-------26. Of the following, the property that most closely relates to acids is.

A. bitter taste B. contains the hydroxide polyatomic ion

C. sour test D. salty taste

-----27.convert 9.5 centimetr to meter

A.95m B. 0.095 m C. 0.0095cm D.0.95cm

-----28.Given

I. Water and carbon dioxide

II. Plastic and sugar

III. Sodium oxide and carbonic acid

IV. Sodium hydroxide and nitrogen dioxide

Which pair of substances is classified as organic?

A. I B. II C. III D. IV

----29.Salt derived from a strong base and a weak acid will give a salt that is _____

A. acidic B. basic C. neutral D. volatile

------30.Inorganic chemistry can be defined as the study of

A. oxygen containing compounds. B. non-carbon containing compounds.

C.carbon and hydrogen Containing compounds D. compounds found in living organism.

-------31.Which of the following is a weak base?

A. NaOH B.KOH C.NH_4OH D.$Ca(OH)_2$

-----32.Which of the following is the general formula of alkanes?

A.CnH2n-2 B. CnH2n C. CnH2n+1 D.CnH2n+2

--------33.Hydrocarbon with a formula C7 H12 is

A.an alkyne B. an alkene C. an alkane D.an alkali

-------34.Which of the following is the name for a hydrocarbon with the formula C8H14?
A.Octane B. Octene C. Octyne D. Octanol

------35.Why formalin is used for the preservation of biological specimen? Because it

A.produces acetic acid from protein. B. makes protein soft and soluble.

C.is used as disinfectant. D.makes protein hard and insoluble

-----36.Which one of the following statements defines an oxide? An oxide is

A.a ternary inorganic compound.

B. the oxygen containing ternary compounds.

C.a compound made from noble gas and oxygen.

D.a binary compound that contains oxygen

-----37.which one is the correct stetment about mass of proton?

A. 1.673×10^{24} B. 1.675×10^{24} C. 9.11×10^{28} D. 1.677×10^{24}

-----38.Which one of the following reactions shows preparation of basic oxides?

A. Carbon + oxygen →carbon dioxide
B. Magnesium + oxygen→ magnesium oxide
C. Phosphorus + oxygen→ phosphorus pentoxide
D. Sulphur + oxygen →Sulphur dioxide

-------39. Four students measure the mass of **50 Kg** teff and they get **46.9, 46.2, 46.7**and **46.5**

kilograms respectively, their measurements are said to be

A. accurate and precise B. accurate but not precise

C. Precise but not accurate D. Neither accurate not precise

-----40.Which of the following aqueous solutions changes color of blue litmus to red?

A. HCl B. MgO C. NaCl D. non

----41. Which product completes the following chemical equation? 2HCl(aq) +Mg(s) → MgCl2 (aq) + .

A.Chlorine B. Hydrogen C. Oxygen D. Carbon dioxide

------42.Acids react with active metals to produce

A. salt, water and carbon dioxide. B. salt and water.

C. salt , nitrogen dioxide and oxygen. D. salt and hydrogen.

-----43.Which one of the following is an example of common bases which are used as anti-acid?

A.Ca(OH)2 B. KOH C. Mg(OH)2 D. NaOH

-----44.Which one of the following reactions is NOT neutralization?

A. $2NaOH(aq) + H_2SO_4(aq) \rightarrow Na2SO_4(aq) + H2O(l)$

B. $KOH(aq) + H2SO_4(aq) \rightarrow K2SO_4(aq) + H2O$

C. $K_2O(S) + H2O(l) \rightarrow KOH(aq)$
D. $Na_2O(s) + 2HCl(aq) \rightarrow 2NaCl(aq) + H_2O$

-----45. the main part of nail that is attached to the skin at the tip of finger is

A nail root

B. nail bed

C. nail body

D. nail fold

------46. Which of the following is a derived physical quantity?

A. mass B. velocity C. length D. speed

-----47.the largest organ of the human body is

A. Brain B. Skin C. Intestine D. Lung

-------48. The outer layer of skin is called

A. Hypodermis
B. Dermis
C. Epidermis
D. None of the above

-------49. The SI unit of density is.

A.N B. m/s^2 C. Kg/m^3 D. Kg/m^2

------50. A major function of skin is protection

A. Reduce excess water
B. Protect from UV light
C. Entry of microorganism
D. All of the above

-------51.The prefix ‘mega ‘represents.

A.10^6 B.10^9 C.10^3
D.10^{-6}

------52.whch one of the following provides strength, color and texture

A. Cuticle
B. Cortex
C. Medulla
D. All

------53.the white colored of the nail is

A. Matrix
B. Nail folds
C. Lunula
D. Cuticle

----54.In general, salts

A. are ionic compounds
B. contain hydrogen ions
C. contain hydroxide ions
D. turn litmus red

-------55. _____ is skin disease caused by Varicella zoster virus

A. Blister allergy
B. Cold Sore
C. Chicken Pox
D. Latex

-------56.What is the number of neutron in atom $^{80}_{35}$ Br

A 35
B. 121
C. 45
D. 80

------57.Neutrilzation reaction is important for the formation of

A, Base and water
B. acid and water
C. salt and water
D. basic oxide

--------58.which one is important for cure wasp string

A. Tooth pest shampoo
B. vinegars
C. baking powder
D.

--------59.convert 3400kg to feresula

A.17kg
B. 3400kF
C. 200kg
D. 200F

------60.the sub atomic particles of an atoms take a chemical reaction

A. Proton
B. nucleolus
C. neutron
D. electron

General science Answer sheet

1.C
2.B
3.D
4.B
5.A
6.C
7.D
8.C
9.B
10 . D
11 .A
12 B
13 C
14 C
15 D
16 D
17 B
18 C
19 A
20 A
21 B
22 C
23 D
24 C
25 C
26 C
27 B
28 B
29 B
30 B
31 C
32 D
33 A
34 A
35 D
36 D
37 A
38 B
39 C
40 A
41 B
42 B
43 C
44 C
45 C
46 B
47 B
48 A
49 C
50 D
51 A
52 B
53 C
54 A
55 C
56 C
57 C
58 B
59 D
60 D