አሜጋ ትምህርት ቤት

OMEGA SCHOOL

Name of student: _____ Subject: **General Science**

Grade: 8 section: Semester: 1st

INSTRUCTION: CHOOSE THE CORRECT ANSWER FOR THE FOLLOWING QUESTIONS BELOW FROM THE GIVEN FOUR ALTERNATIVES AND WRITE YOUR ANSWER ON THE GIVEN SPACE

1. The Unit of length that used to measure the distance from the middle finger tip of the left hand to right hand when you stretch your arms out as far as they can reach is known as _____.

   A. Pace B. Arm span C. Digit D. Cubit

2. Which one is a measurement that applied by the scientific Community?

   A. Indigenous method C. Modern method

   B. Measuring time by second D. All except "A" ANSWER THE FOLLOWING

QUESTION BASED ON THE GIVEN INFORMATION BELOW:

1. Hand span 2. Digit 3. Cubit 4. Foot 5. Pace 6. Fathom

3. Which one is **correctly** listed from large to small unit?

   A. 6,5,3,4,1,2 B. 6,3,5,2,1,4 C. 5,6,3,4,2,1 D 1,2,3,4,5,6

4. _____ is the amount of matter present in a substance.

   A. mass B. Kilogram C. Matter D. All

5. in ancient time the mass of powder of Gold measured by_____

A. Feresula B. Quantal C. Karate D. Weqet

6. Which one of the following is the space occupied by an Object?

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

7. Which quantity is ***not*** correctly matched with its SI unit?

A. Temperature --------> Kelvin C. Mass ----------> Kilogram

B. Time ----------> Hour D. Length----------> Meter

8. Which one is not a Quantity which cannot be expressed in terms of other quantity ?

A. Derived physical quantity C. Basic physical quantity

B. Fundamental physical quantity D. Length, Time and Mass

9. One of the following is the comparison of unknown quantity with some known quantity which one is it?

A. Quantity B. Measurement C. Unit D. Matter

10. Which derived quantity is ***not*** correctly matched with its derived unit?

A. Density ---------> kg/m^2 C. Speed ----------> m/s

B. Volume ----------> m^3 D. Area ----------> m^2

11. Which writing form is correctly representing 0.000005m by prefix?

A. 5cm B. 0.5mg C. 5µm D. 5km

12. Which one is correct about ***Precise*** in measurement from the following?

A. It refers to how a measurement close to actual/accepted value

B. It refers to how measurements close to each other.

C. It refers to how measurements close to far from each other. D. It refers to how a measurement far from accepted value.

13. Your hypothesis ***STRONG*** ,

A. If other researchers get the same results as yours

B. If others researchers get different results from yours

C. If your result is unfair

D. All are incorrect answer

14. Of the following which idea is ***not true*** about Democritus on matters? His belief that:

A. All matters consists a very small, indivisible particles.

B. He belief that the existence of atom

C. As atom moving particles that different in shape and size, this joined together

D. He believes that as matter is Continues

15. Which one is ***not*** correct about Atom?

A. It has nucleus and shell

B. Its electrically charge less

C. It is indivisible

D. Its volume mostly occupied by electrons

16. Which substances occupy space and have its own mass from the following?

A. Milk B. Matter C. Stone D. All are correct

17. An ancient philosopher that **rejects** the idea of Atom was called ?

A. Aristotle B. Democritus C. J.J Thomson D. John Dalton

18. Why the charge of an atom is electrically ***neutral***? Because of:

A. It has equal number of protons and electrons

B. The charge of proton &electron attract each other & make its charge zero

C. The reason was unknown until today

D. A and B are correct answer

19. What is the number of electron, proton and neutron respectively in ***Sodium ion*** which have 11 atomic numbers and 23 mass number?

A. 11, 11 and 12 C. 12, 11 and 10

B. 10, 11 and 12 D. 10, 12 and 11

20. Which subatomic particles have almost the same mass?

A. Electron and proton C. Proton and Neutron

B. Neutron and Electron D. Proton, Neutron and Electron

21. Which one is correct about ***Ozone molecules***? It

A. Contain three different atoms

B. It is polyatomic molecules

C. It contain three similar atoms

D. B & C are correct answer

22. One of the following molecules is **odd** from the other which one is it?

A. Water B. Ammonia C. Nitrogen D. Carbon dioxide

23. Which one is correct about ***earlier*** definition of Organic molecules?

A. It is made up of carbon and Hydrogen atom only

B. It is made up of living things

C. It is made up of carbon and Hydrogen as well as other elements

D. All are correct about it

24. Early theory that state as Living organisms was necessary for the formation of an organic compound is called .

A. Continues theory C. Dalton theory

B. Vital theory D. Discrete theory

25. A compounds contains Carbon and Hydrogen, alongside with other possible elements such as oxygen, Nitrogen, Sulphur, Halogens are____ .

A. Inorganic B. Organic C. Hydrocarbon D. All are correct

26. Which one is ***not*** classified under Organic Compound?

A. $C_{12}H_{22}O_{11}$ B. C_2H_6 C. NaOH D. CH_3Cl

27. of the following general formula which one is correctly matched its hydrocarbons classes?

A. C_nH_{2n+2} ----------> Alkanes C. C_nH_{2n-2} ----------> Alkynes

B. C_nH_{2n} ----------> Alkenes D. All are correctly matched

28. During Nomenclature of Hydrocarbons ***Suffix*** indicates:

A. Number of arbon atom C. Properties

B. Functional group D. Types of Hydrocarbon

29. Which one are the uses of common Organic compounds?

A. For heating, cooking and generating electricity

B. Preserving biological specimen

C. Cutting and welding steel and iron

D. All are the uses of Organic compounds

30. A binary compounds containing Oxygen and any other element is _____ .

A. Oxide B. Acid C. Base D. Salt

31. Which one is **not** non-metallic oxide?

A. CO B. SO_3 C. Fe_2O_3 D. NO_2

32. The general formula of ***Alkene*** that has 18 Hydrogen atoms is:

A. C_9H_{18} B. C_9H_{20} C. C_9H_{16} D. C_9H_{19}

33. Which one is correct about ***Octyne***?

A. It is alkane that has eight carbon atom

B. it is alkyne that has eight carbon atom

C. It is alkene that has eight carbon atom

D. It is Alkyne that has Seven carbon atom

34. Which one is the main constituents of biogas that used as a domestic fuel?

A. CH_4 B. C_2H_4 C. C_4H_{10} D. C_3H_6

35. All the following are the ***uses*** of Ethanol (Ethyl alcohol) except?

A. Intoxication of alcoholic beverage

B. As fuel when mixed with petrol

C. Cleaning wounds in clinics

D. For food preservation

36. Which of the following acid is not correctly named?

A. H_3PO_4 --------> Phosphoric acid

B. H_2SO_4-------->Sulfuric acid

C. HPO_4 ------->Hydrogen Phosphate

D. H_2SO_3-----> Sulfuric acid

37. Which of the following oxides form Nitric acid when it reacts with water?

A. N_2O_3 B. N_2O_5 C. N_2O D. NO

38. What is the missing product “X" in the following chemical equation?

$CaCO_3$ + H_2SO_4 -------> X + H_2O + CO_2

A. $MgSO_4$ B. $CaCl_2$ C. Na_2CO_3 D. $CaSO_4$

39. Assume that you are going to School for tutorial class of General Science, When approach to your School pale you heared some sound which tell you as one girl drunk accidentally ***Sulfuric acid***, What do you do to save her Soul/life?

A. Give for her dilute acetic acid

B. Give for her Mg (OH) from local pharmacy 2

C. Give for enough air

D. All are correct treatment

40. Which one is ***not correct*** about the application of Neutralization reaction in our daily life?

A. Baking powder is usually used to help the cake rise due to it contain base

B. Vinegar acid is used to cure wasp sting

C. Baking powder used to cure bee sting and ant

D. Acidic soil treats by gas from decomposition of compost

41. The positive and negative ion of Sodium chloride (NaCl) comes from__ and ____ .

A. HCl & KOH B. NaOH & HCl C. $Ca(OH)_2$ & H_2CO_3 D. A and B

42. Which salt is used to make gun powder and fertilizer from the following?

A. Calcium Carbonate C Potassium nitrate

B. Sodium chloride D. Sodium bicarbonate

43. Acid change Phenolphthalein, Blue litmus paper and Methyl Orange into:

A. Colorless, Red and Red C. Red, Red and Red

B. Pink, Red and Yellow D. Colorless, yellow and Pink

44. Which one is measured by Feresula from the following substances?

A. Milk & Coffee B. Pepper & coffee C. Grains & gold D. Wheat

45. Which one is the Sources of Hydrocarbons in Ethiopia?

A. Natural gas B. Petroleum C. Coal D. All

46. A Germen chemist that prepared Urea which is organic compound from Inorganic compound Ammonium chloride and silver cyanate in 1828 is _____ _.

A. Friedrich Wohler C. Aristotle

B. Democritus D. John Dalton

47. Which one of the following is ***not*** polyatomic molecules of element?

A. S_8 B. N_2 C. O_3 D. P_4

48. What is the **charge** of nucleus?

A. Positively charged C. Neutral

B. Negatively charged D. Unknown

49. One of the following is not correctly matched with its relative mass which one is it?

A. Proton --------> 1amu C. Neutron --------> 1amu

B. Electron -------->1amu D. Electron -------->0 amu

50. Which of the following integumentary system is correctly matched with its function?

A. hair→ protect the internal parts of finger

B. Skin → keeping skull warm

C. gland → produce important chemicals substances

D. Nail -→protect skin

51. Which of the following is ***visible*** part of our Nail?

A. Lunula B. Nail bed C. Nail plate D. Matrix

52. Which layer of the skin contains the blood and lymph vessels?

A. Dermis B. Epidermis C. Hypodermis D. Upper layer

53. Which one of the following is ***not*** the structural component of Integumentary system?

A. Skin B. Gland C. Bone D. Nail

54. Muscles are composed a cells that called _____

A. Connective tissue C. Fiber muscles

B. Ligament D. Smooth muscles

55. Which one of the following is the function of Muscles?

A. Pumping blood C. Digestion, posture

B. Stability, circulation D. All correct

56. The contraction of **"X"** muscle causes the movement of bones and allows activities like chewing, talking, facial expression and drinking which one is it?

A. Cardiac muscle C. Skeletal Muscle

B. Smooth muscle D. Heart muscle

57. Which one of the following system interacts with others Systems by holding up your body and giving it support?

A. Muscular System C. Digestive System

B. Skeletal System D. Respiratory System

58. A mineralized connective tissue that contains collagen and other minerals like calcium phosphate and minerals crystal is called _____ .

A. Cartilage B. Joint C. Bone D. Ligament

59. The connective tissue provides flexible and elasticity structures Support for certain structures like nose, trachea and ears is called_____ _.

A. Cartilage B. Tendon C. Ligament D. Joint

60. Which disease of skeletal system is form cancer of the bodys blood forming tissues in bone marrow and lymphatic system?

A. Osteopenia B. Leukemia C. Fracture D. Osteoporosis