Grade Eight G.Science Exam preparation Questions

Part Two

1. A binary compounds containing Oxygen and any other element is :

   a. Oxide b. Acid c. Base d. Salt

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

   a. CO b) SO_3 c) $Fe_2 O_3$ d) NO_2

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

   a. C_9H_{18} b) C_9H_{20} c) $C_9 H_{16}$ d) C_9H_{19}

4. 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

5. An indigenous method of measuring length that measure from the tip of little finger to tip of thumb is :

   A. Hand span C. pace

   B. Cubit D. arm span

6. When a substance changes color, size, shape, temperature, or state it has undergone

   a…….. .

   a. molecular motion c. physical change

   b. chemical property d. sublimation

7. 200 Kuntal is……. Kilogram

   a. 2000 b. 400 c. 20,000 d. 40,000

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8. The formula for density is _____ .

   a. volume x mass
   c. mass/volume
   b. mass – volume
   d. Volume + mass

9. Melting ice is an example of a…….

   a. chemical change
   b. physical change

10. The SI unit of force is:

   a. Kg
   b. Kg/m^3
   c. Kg/m^2
   d. $Kg\ m/S^2$

11. Digesting fries is an example of a _____.

   a. chemical change
   b. physical change

12. Which of the following describes matter in terms of its ability to change into a new substance?

   a. physical property
   c. chemical property
   b. State
   d. solids

13. Cutting a piece of paper, ice melting, separating out water from seawater, and diluting sugar in a glass of water are all examples of a……...

   a. physical reaction
   c. chemical reaction
   b. physical change
   d. chemical change

14. Examples of chemical properties include

   a. flammability, oxidation, acid reactivity, and PH.
   b. malleability, ductility, viscosity, and solubility.
   c. hardness, density, color, and odor.
   d. thermal and electrical conductivity.

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

a. CH_4 c. C_4H_{10}

b. C_2H_2 d. C_3H_6

16. All the following are ***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

17. Which one 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

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

a. N_2O_4 b) N_2O_3 c) N_2O d) NO

19. 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) $CaSO_4$

20. Cutting a piece of paper, ice melting, separating out water from seawater, and diluting sugar in a glass of water are all examples of a……...

a. physical reaction c. chemical reaction

b. physical change d. chemical change

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21. Who proposed the idea of continuous theory?

a. Aristotle b. Dimocratus c. Socratus d. Efratus

22. Burning propane is an example of a ……...

a. chemical change b. physical change

23. One example of a chemical change is ……...

a. Filtering c. boiling water

b. burning wood d. crushing a can

24. New substances are always formed when matter undergoes a……...

a. change in shape c. physical change

b. change in temperature d. chemical change

25. Evaporation involves a transition from…….

a. solid to liquid c. gas to liquid

b. liquid to gas d. liquid to solid

26. If you are given the mass of an element to be 45 a.m.u and 21 protons, what is

Number of neutrons?

a. 22 b. 23 c. 24 d. 26

27. 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

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28. The positive and negative ion of Sodium chloride (NaCl) comes from…….and……..

a. HCl and KOH
b. NaOH and HCL
c. Ca $(OH)_2$ and H_2CO_3
d. A and B

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

a. Calcium Carbonate
b. Sodium Chloride
c. Potassium nitrate
d. Sodium bicarbonate

30. Acid change phenolphthalein, Blue litmus paper and Methyl Orange in to:

a. Colorless, Red and Red
b. Pink, Red and Yellow
c. Red, Red and Red
d. Colorless, yellow and Pink

31. Which one is measured by Feresula from the following?

a. Milk and Coffee
b. Pepper and coffee
c. Grains and Gold
d. Wheat

32. Melting an ice cube would be an example of a/an …….

a. chemical change
b. chemical reaction
c. physical change
d. organic change

33. ..... is a measure of the amount of mass in a given volume.

a. Matter
b. Mass
c. Volume
d. Density

34. Which one is the source of Hydrocarbons in Ethiopia?

a. Natural Gas
b. Petroleum
c. Coal
d. All

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35. A German chemist that prepared Urea which is organic compound from Inorganic Compound Ammonium chloride and silver cyanate in 1828 is:

a. Friedrich Wohler
b. Democritus
c. Aristotle
d. John Dalton

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

a. Sa
b. N_2
c. O_3
d. P_4

37. What is the charge of nucleus?

a. Positively charged
b. Negatively charged
c. Neutral
d. Unknown

38. One of the following is not correctly matched with its relative mass :

a. Proton……. 1 amu
b. Electron……. 1amu
c. Neutron…… 1amu
d. Electron……0 amu

39. 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

40. Which of the following is visible part of our Nail?

a. Lunula
b. Nail bed
c. Nail plate
d. Matrix

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