

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) SO₃ c) Fe₂ O₃ d) NO₂
3. The general formula of *Alkene* that has 18 Hydrogen atoms is :
a. C₉H₁₈ b) C₉H₂₀ c) C₉ H₁₆ d) C₉H₁₉
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

8. The formula for density is _____ .
- a. volume x mass
 - b. mass – volume
 - c. 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/m³
 - c. Kg/m²
 - d. Kg m/S²
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
 - b. State
 - c. chemical property
 - 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
 - b. physical change
 - c. chemical reaction
 - 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.

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

- a. CH_4
- b. C_2H_2
- c. C_4H_{10}
- 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_4phosphoric acid
- b. H_2SO_4Sulfuric acid
- c. HPO_4Hydrogen 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?



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

21. Who proposed the idea of continuous theory?
- a. Aristotle b. Democritus c. Socrates 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

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 H₂CO₃
 - 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

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. N₂
- c. O₃
- d. P₄

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