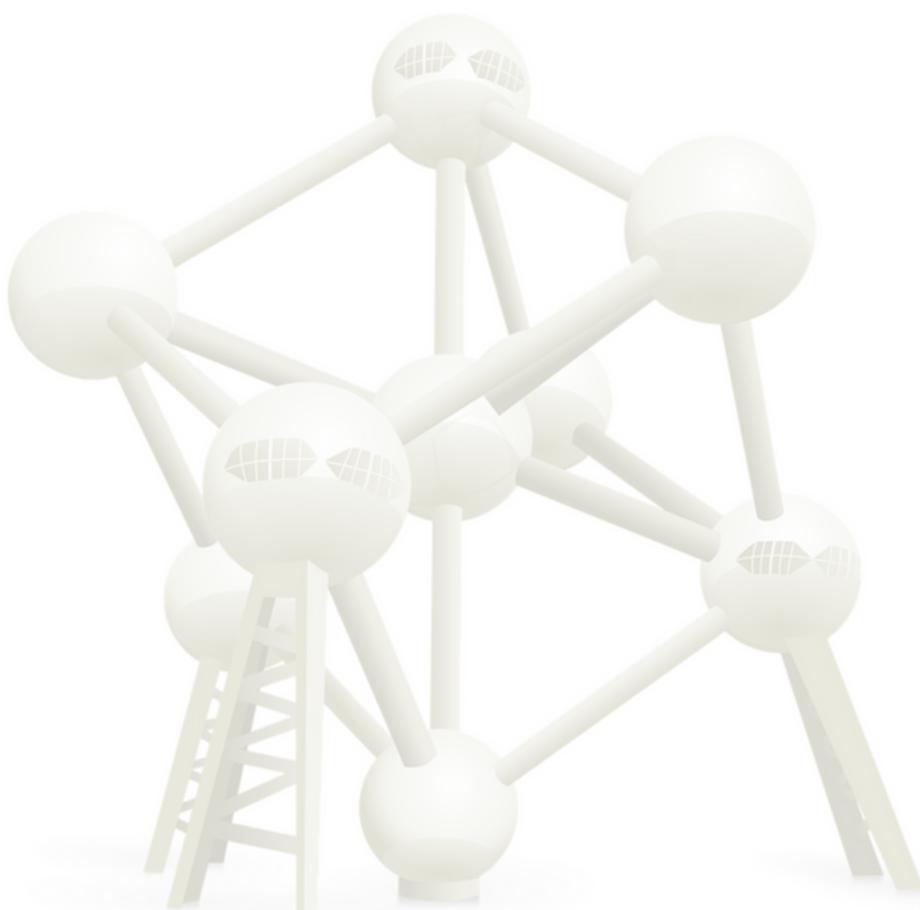


CHEMISTRY

MCQ



Chemistry MCQ:

Q1. Which of the following is likely to reach our body via the food chain in the event of an atomic bomb explosion?

- (a) U-235
- (b) Sr-90
- (c) K-40
- (d) H-3

Ans.(b)

Q2. A radioactive substance emits which of the following particle/s?

- (a) alpha particle
- (b) beta particle
- (c) gamma particle
- (d) all of the three

Ans.(d)

Q3. A detergent is a—

- (a) cleansing agent
- (b) drug
- (c) catalyst
- (d) soap

Ans.(a)

Q4. Candles contains a mixture of which of the following?

- (a) Bees wax and paraffin wax
- (b) Bees wax and stearic acid
- (c) Paraffin wax and stearic acid
- (d) Higher fatty acid

Ans.(c)

Q5. 'Acid rain' is caused due to air-pollution by

- (a) carbon dioxide
- (b) carbon monoxide
- (c) methane
- (d) nitrous oxide and sulphur dioxide

Ans.(d)

Q6. Which gas is used in filling electric bulbs?

- (a) Neon
- (b) Argon
- (c) Radon
- (d) Krypton

Ans.(b)

Q7. When soggy biscuits are kept inside the fridge for some time they become crisp because—

- (a) cooling releases extra moisture
- (b) humidity inside the fridge is low and extra moisture is absorbed
- (c) humidity inside the fridge is high and extra moisture is absorbed
- (d) pressure inside the fridge is high and helps in releasing extra moisture

Ans.(b)

Q8. Alum is used as—

- (a) an analgesic
- (b) a fertilizer
- (c) a disinfectant
- (d) a purifier for water

Ans.(d)

Q9. Which of the following is an antidiabetic drug?

- (a) Insulin
- (b) Penicillin
- (c) Chloroquine
- (d) Aspirin

Ans.(a)

Q10. Which one of the following mixtures is homogeneous?

- (a) Starch and sugar
- (b) Methanol and water
- (c) Graphite and charcoal
- (d) Calcium carbonate and calcium bicarbonate

Ans.(b)

Q11. To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is—

- (a) acidic
- (b) neutral
- (c) basic
- (d) corrosive

Ans.(c)

Q12. Why H₂O is liquid and H₂S is a gas?

- (a) oxygen forms stronger hydrogen bond than sulphur.
- (b) oxygen is less electronegative than sulphur.
- (c) atomic radius of oxygen is less than that of sulphur.
- (d) atomic radius of oxygen is greater than that of sulphur.

Ans.(a)

Q13. Which device is used for the measurement of radioactivity?

- (a) Mass spectrometer
- (b) Cyclotron
- (c) Nuclear reactor
- (d) G.M. counter

Ans.(d)

Q14. Which of the following halogen being used as analgesic?

- (a) chlorine
- (b) bromine
- (c) iodine
- (d) fluorine

Ans.(b)

Q15. Uric acid is present in which of the following?

- (a) Soda water
- (b) Rancid butter
- (c) Sour milk
- (d) Urine of mammals

Ans.(d)

Q16. Which of the following is the most common element in the Universe?

- (a) Nitrogen
- (b) Oxygen
- (c) Hydrogen
- (d) Carbon

Ans.(c)

Q17. Indane gas is a mixture of which gases?

- (a) butane and hydrogen
- (b) butane and propane
- (c) butane and oxygen
- (d) methane and oxygen

Ans.(b)

Q18. Alum is used as—

- (a) an analgesic
- (b) a fertilizer
- (c) a purifier for water
- (d) a disinfectant

Ans.(c)

Q19. Which one of the following is the correct sequence of the given elements in the increasing order of their reactivity?

- (a) Iodine-Bromine-Fluorine-Chlorine
- (b) Bromine-Iodine-Chlorine-Fluorine
- (c) Bromine-Iodine-Fluorine-Chlorine
- (d) Iodine-Bromine-Chlorine-Fluorine

Ans.(d)

Q20. Silicon is used in which of the following?

- (a) semiconductors

- (b) solar energy devices
 - (c) transistors
 - (d) All of these
- Ans.(d)

Q21. Which of the following is the nuclear fuel in the sun?

- (a) uranium
 - (b) hydrogen
 - (c) helium
 - (d) alpha particles
- Ans.(c)

Q22. Consider the following parts of spectra:

1. Visible
2. Infrared
3. Ultraviolet
4. Microwave

Which of the following is the correct sequence in which the wavelengths increase?

- (a) 4, 3, 1, 2
- (b) 4, 1, 2, 3
- (c) 3, 2, 1, 4
- (d) 3, 1, 2, 4

Ans.(d)

Q23. Cobalt (⁶⁰) isotope is used in the treatment of which disease?

- (a) heart diseases
- (b) cancer
- (c) diabetes
- (d) skin diseases

Ans.(b)

Q24. A sample of chloroform before using as an anesthetic, is tested by which solution?

- (a) Fehling's solution
- (b) Ammonical silver nitrate solution
- (c) Ammonical cuprous chloride
- (d) Silver nitrate solution after boiling with alcoholic KOH

Ans.(b)

Q25. The metal constituent of chlorophyll is—

- (a) Iron
- (b) Potassium
- (c) Manganese
- (d) Magnesium

Ans.(d)

Q26. Which one of the following glasses is used in bullet proof screens?

- (a) Reinforced glass

- (b) Pyrex glass
 - (c) Jena glass
 - (d) Soda glass
- Ans.(a)

Q27. Which one among the following is used as a moderator in nuclear reactors?

- (a) Ozone
 - (b) Heavy hydrogen
 - (c) Hydrogen peroxide
 - (d) Heavy water
- Ans.(d)

Q28. Hydrofluoric acid is not kept in glass bottles because it reacts with—

- (a) visible light
 - (b) silicon dioxide of glass
 - (c) aluminium oxide of glass
 - (d) sodium oxide of glass
- Ans.(b)

Q29. The inexhaustible source of energy of the stars is due to—

- (a) decay of radioactive elements
 - (b) conversion of helium to hydrogen
 - (c) conversion of hydrogen to helium
 - (d) excess of oxygen that helps burning and release of energy
- Ans.(c)

Q30. Consider the following statements:

Hard water is not suitable for

1. Drinking
2. Washing clothes with soap
3. Use in boilers
4. Irrigating crops

Which of these statements are correct?

- (a) 1 and 3
 - (b) 2 and 3
 - (c) 1, 2 and 4
 - (d) 1, 2, 3 and 4
- Ans.(d)