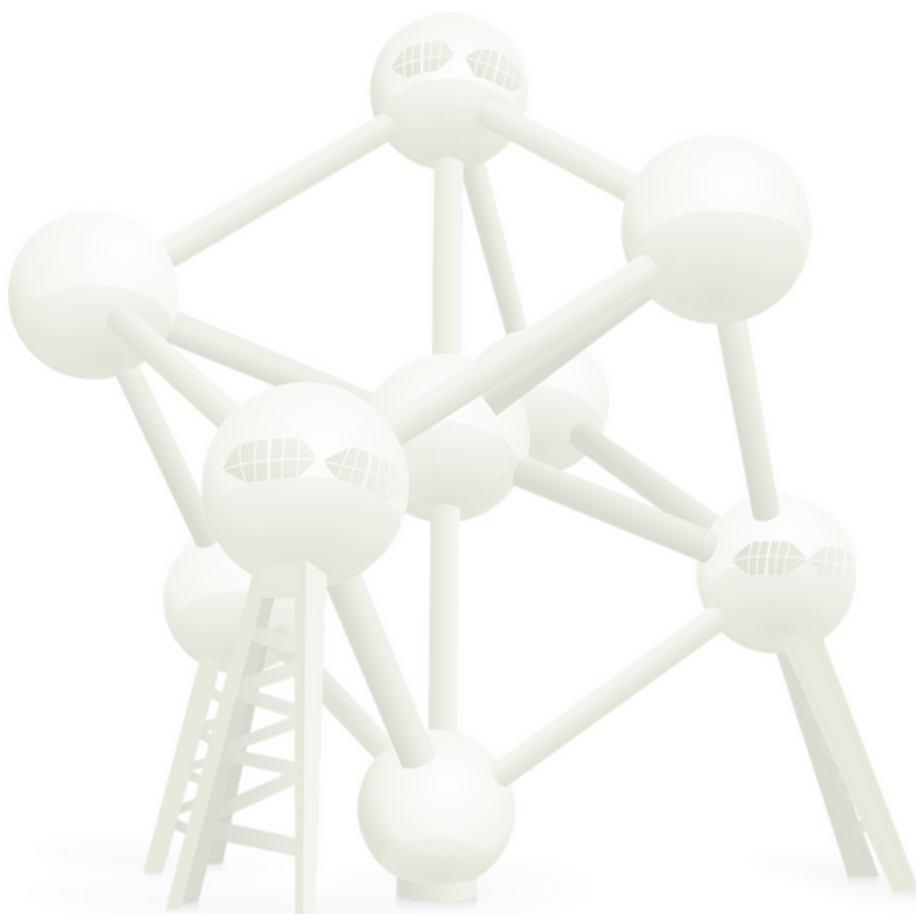


# CHEMISTRY

## MCQ



## Chemistry Q&A – 1<sup>st</sup> August 2017

Q1. \_\_\_\_\_ is an example of ionic solids.

- (a) Diamond
- (b) Copper
- (c) Dry ice
- (d) Sodium chloride

Ans: d

Q2. Conversion of a substance directly from solid to vapour state is known as

- (a) Vaporisation
- (b) Sublimation
- (c) Decomposition
- (d) Ionisation

Ans: b

Q3. Gases have

- (a) A definite shape but not volume
- (b) A definite volume and shape
- (c) A definite volume but not shape
- (d) Neither definite volume nor shape

Ans: d

Q4. The melting and boiling points of ionic solids are

- (a) High
- (b) Low
- (c) Very low
- (d) Of intermediate range

Ans: a

Q5. The two elements that exist as liquids at 25°C are

- (a) Mercury and lithium
- (b) Mercury and caesium
- (c) Bromine and mercury
- (d) Mercury and argon

Ans: c

Q6. The point at which the solid, liquid and gaseous forms of a substance co-exist is called its

- (a) Boiling point
- (b) Melting point
- (c) Triple point
- (d) Freezing point

Ans: c

Q7. The so-called fourth state of matter refers to

- (a) Mercury

- (b) LPG
  - (c) Dry ice
  - (d) Plasma
- Ans: d

Q8. Which of the following metals is in a liquid state at normal room temperature?

- (a) Sodium
  - (b) Radium
  - (c) Gallium
  - (d) Silicon
- Ans: c

Q9. Van der Waals' equation explains the behaviour of

- (a) Mixture of gases
  - (b) Ideal gas
  - (c) Real gas
  - (d) Water gas
- Ans: c

Q10. Which of the following is a mixture?

- (a) Gunpowder
  - (b) Iron sulphate
  - (c) Brass
  - (d) Dry ice
- Ans: a

Q11. Air is

- (a) An element
  - (b) A compound
  - (c) A mixture
  - (d) A colloid
- Ans: c

Q12. Alloy steel containing chromium, to resist rusting, is known as

- (a) Wrought iron
  - (b) Cast iron
  - (c) Hard steel
  - (d) Stainless steel
- Ans: d

Q13. Alloys in which mercury is one of the metals are called

- (a) Amalgams
  - (b) Emulsions
  - (c) Mixtures
  - (d) Solders
- Ans: a

Q14. Colloids

- (a) Are true solutions
- (b) Are two-phase systems
- (c) Contain only water soluble substances
- (d) None of above

Ans: b

Q15. Colloids are purified by

- (a) Peptisation
- (b) Coagulation
- (c) Condensation
- (d) Dialysis

Ans: d

Q16. Which gas is responsible for the swelling of bread?

- (a) Oxygen
- (b) Carbon monoxide
- (c) Carbon dioxide
- (d) Ammonia

Ans: c

Q17. The metal compound commonly found in Sindhoor or Kumkum is based on

- (a) Tin
- (b) Lead
- (c) Copper
- (d) Zinc

Ans: b

Q18. Which among the following elements (metals) pollutes the air of a city having a large number of automobiles?

- (a) Cadmium
- (b) Lead
- (c) Chromium
- (d) Nickel

Ans: b

Q19. Which one among the following is used as a moderator in nuclear reactors?

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

Ans: c

Q20. What is a mixture of potassium nitrate, powdered charcoal and sulphur called?

- (a) Glass
- (b) Cement
- (c) Paint

(d) Gun powder

Ans: d

Q21. Alum is used as

(a) an analgesic

(b) a fertilizer

(c) a disinfectant

(d) a purifier for water

Ans: d

Q22. In surgery, metal pins are used for joining together broken bones. These metal pins remain uncorroded in the body. What is the material of these pins?

(a) Copper

(b) Iron

(c) Aluminium

(d) Titanium

Ans: d

Q23. Human stomach produces acid 'X' which helps in digestion of food. Acid 'X' is

(a) acetic acid

(b) methanoic acid

(c) hydrochloric acid

(d) citric acid

Ans: c

Q24. An ideal gas is one which obeys

(a) Gas laws

(b) Boyle's laws

(c) Charle's law

(d) Avogadro's law

Ans: a

Q25. The enzymes are killed

(a) at a very high temperature

(b) during chemical reaction

(c) at low temperature

(d) under atmospheric pressure

Ans: a

Q26. Which has maximum calorific value?

(a) Fat

(b) Protein

(c) Carbohydrate

(d) Amino acid

Ans: a

Q27. In which type of coal percentage of carbon is the highest?

- (a) Peat
- (b) Lignite
- (c) Bituminous
- (d) Anthracite

Ans: d

Q28. Blood cells do not shrink in blood because blood is

- (a) hypertonic
- (b) isotonic
- (c) equimolar
- (d) hypotonic

Ans: b

Q29. The gas which emits from rice field is

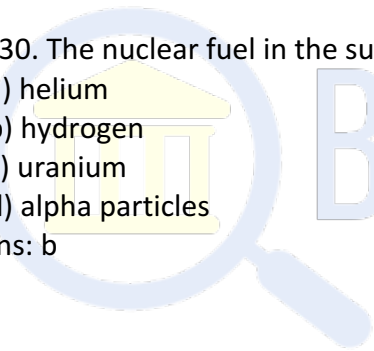
- (a) ethane
- (b) methane
- (c) nitrogen
- (d) All of the above

Ans: b

Q30. The nuclear fuel in the sun is

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

Ans: b



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