

Kerala PSC Chemistry Questions

1. What is the chemical symbol for Sodium?

- A) So
- B) Na
- C) S
- D) Sn

Answer: B) Na

2. Which gas is essential for respiration?

- A) Nitrogen
- B) Oxygen
- C) Carbon dioxide
- D) Hydrogen

Answer: B) Oxygen

3. The pH value of a neutral solution is:

- A) 5
- B) 6
- C) 7
- D) 8

Answer: C) 7

4. Which acid is present in vinegar?

- A) Citric acid
- B) Sulphuric acid
- C) Acetic acid
- D) Hydrochloric acid

Answer: C) Acetic acid

5. Which metal is liquid at room temperature?

- A) Iron
- B) Mercury
- C) Aluminium
- D) Copper

Answer: B) Mercury

6. Which gas is released during photosynthesis?

- A) Hydrogen
- B) Nitrogen
- C) Oxygen
- D) Carbon dioxide

Answer: C) Oxygen

7. Which of the following is an alkali?

- A) Hydrochloric acid
- B) Sodium hydroxide
- C) Sulphuric acid
- D) Nitric acid

Answer: B) Sodium hydroxide

8. Which element is represented by the symbol 'Fe'?

- A) Fluorine
- B) Iron
- C) Francium
- D) Fermium

Answer: B) Iron

9. Water is a:

- A) Mixture
- B) Compound
- C) Element
- D) Alloy

Answer: B) Compound

10. Which gas is known as laughing gas?

- A) Oxygen
- B) Nitrous oxide
- C) Carbon monoxide
- D) Chlorine

Answer: B) Nitrous oxide

11. Which metal is the best conductor of electricity?

- A) Copper
- B) Silver
- C) Gold
- D) Iron

Answer: B) Silver

12. Which acid is found in lemons?

- A) Acetic acid
- B) Formic acid
- C) Citric acid
- D) Lactic acid

Answer: C) Citric acid

13. Which gas turns lime water milky?

- A) Oxygen
- B) Hydrogen

- C) Carbon dioxide
- D) Nitrogen

Answer: C) Carbon dioxide

14. Which is the lightest element?

- A) Helium
- B) Oxygen
- C) Hydrogen
- D) Lithium

Answer: C) Hydrogen

15. Which non-metal is liquid at room temperature?

- A) Bromine
- B) Iodine
- C) Sulphur
- D) Chlorine

Answer: A) Bromine

16. Which of the following is an inert gas?

- A) Oxygen
- B) Nitrogen
- C) Neon
- D) Hydrogen

Answer: C) Neon

17. Rusting occurs due to the reaction of iron with:

- A) Nitrogen only
- B) Oxygen and moisture
- C) Carbon dioxide only
- D) Hydrogen only

Answer: B) Oxygen and moisture

18. Which gas is commonly used in fire extinguishers?

- A) Oxygen
- B) Carbon dioxide
- C) Hydrogen
- D) Chlorine

Answer: B) Carbon dioxide

19. Which metal is used for galvanizing iron?

- A) Copper
- B) Zinc
- C) Lead
- D) Tin

Answer: B) Zinc

20. Baking soda is chemically known as:

- A) Sodium chloride
- B) Sodium bicarbonate
- C) Sodium carbonate
- D) Potassium chloride

Answer: B) Sodium bicarbonate

21. Which element is essential for making pencils?

- A) Graphite
- B) Diamond
- C) Coal
- D) Iron

Answer: A) Graphite

22. Which gas is mainly responsible for the greenhouse effect?

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Helium

Answer: C) Carbon dioxide

23. Which of the following is a strong acid?

- A) Acetic acid
- B) Citric acid
- C) Hydrochloric acid
- D) Carbonic acid

Answer: C) Hydrochloric acid

24. Which process converts a liquid into vapor?

- A) Condensation
- B) Freezing
- C) Evaporation
- D) Sublimation

Answer: C) Evaporation

25. Which metal is used in thermometers?

- A) Copper
- B) Mercury
- C) Zinc
- D) Aluminium

Answer: B) Mercury

26. Which of the following is an example of a chemical change?

- A) Melting ice
- B) Breaking glass
- C) Rusting of iron
- D) Boiling water

Answer: C) Rusting of iron

27. Which element has the atomic number 1?

- A) Helium
- B) Hydrogen
- C) Lithium
- D) Carbon

Answer: B) Hydrogen

28. Which vitamin contains the element cobalt?

- A) Vitamin A
- B) Vitamin B12
- C) Vitamin C
- D) Vitamin D

Answer: B) Vitamin B12

29. Which gas is used to manufacture ammonia in the Haber process?

- A) Oxygen
- B) Hydrogen
- C) Chlorine
- D) Helium

Answer: B) Hydrogen

30. Which scientist proposed the periodic table?

- A) John Dalton
- B) Dmitri Mendeleev
- C) Ernest Rutherford
- D) Niels Bohr

Answer: B) Dmitri Mendeleev

31. Which gas is produced when an acid reacts with a metal?

- A) Oxygen
- B) Hydrogen
- C) Nitrogen
- D) Carbon dioxide

Answer: B) Hydrogen

32. Which metal is extracted from bauxite?

- A) Copper
- B) Aluminium
- C) Iron
- D) Zinc

Answer: B) Aluminium

33. Which of the following is a noble gas?

- A) Oxygen
- B) Argon
- C) Nitrogen
- D) Hydrogen

Answer: B) Argon

34. What is the chemical formula of common salt?

- A) NaOH
- B) NaCl
- C) Na₂CO₃
- D) NaHCO₃

Answer: B) NaCl

35. Which acid is present in the human stomach?

- A) Sulphuric acid
- B) Nitric acid
- C) Hydrochloric acid
- D) Acetic acid

Answer: C) Hydrochloric acid

36. Which gas is used to prepare soft drinks?

- A) Oxygen
- B) Carbon dioxide
- C) Hydrogen
- D) Nitrogen

Answer: B) Carbon dioxide

37. Which element is used in the manufacture of matchsticks?

- A) Phosphorus
- B) Helium
- C) Neon
- D) Copper

Answer: A) Phosphorus

38. Which metal is the main component of stainless steel?

- A) Iron
- B) Silver
- C) Gold
- D) Mercury

Answer: A) Iron

39. Which indicator turns red in an acidic solution?

- A) Phenolphthalein
- B) Red litmus paper
- C) Blue litmus paper
- D) Turmeric paper

Answer: C) Blue litmus paper

40. Which substance is commonly used to neutralize acidic soil?

- A) Sodium chloride
- B) Lime (Calcium oxide)
- C) Sugar
- D) Vinegar

Answer: B) Lime (Calcium oxide)

41. Which of the following is an alloy?

- A) Iron
- B) Brass
- C) Copper
- D) Aluminium

Answer: B) Brass

42. Which gas is commonly known as marsh gas?

- A) Methane
- B) Ethane
- C) Propane
- D) Butane

Answer: A) Methane

43. Diamond is an allotrope of:

- A) Sulphur
- B) Carbon
- C) Oxygen
- D) Silicon

Answer: B) Carbon

44. Which acid is used in car batteries?

- A) Nitric acid
- B) Acetic acid
- C) Sulphuric acid
- D) Citric acid

Answer: C) Sulphuric acid

45. Which element is essential for the formation of hemoglobin?

- A) Calcium
- B) Iron
- C) Sodium
- D) Potassium

Answer: B) Iron

46. Which of the following is a non-metal?

- A) Copper
- B) Aluminium
- C) Sulphur
- D) Zinc

Answer: C) Sulphur

47. Which gas is used to fill balloons to make them float safely?

- A) Oxygen
- B) Hydrogen
- C) Helium
- D) Nitrogen

Answer: C) Helium

48. Which process is used to prevent rusting of iron?

- A) Distillation
- B) Filtration
- C) Galvanization
- D) Sublimation

Answer: C) Galvanization

49. Which of the following is the hardest natural substance?

- A) Iron
- B) Quartz
- C) Diamond
- D) Graphite

Answer: C) Diamond

50. Which gas is released when baking soda reacts with vinegar?

- A) Oxygen
- B) Carbon dioxide
- C) Hydrogen
- D) Nitrogen

Answer: B) Carbon dioxide