

MPSC Meghalaya LDA: General Chemistry Guide

(50 Solved High-Probability MCQs)

Meghalaya Exam Chemistry Series

Part I: High-Yield MCQs

1. Father of Modern Chemistry: **[Ans: (b) Lavoisier]**
 - (a) Dalton
 - (b) Lavoisier
 - (c) Boyle
 - (d) Priestley
2. Sublimation is the process of solid changing to: **[Ans: (c) Gas]**
 - (a) Liquid
 - (b) Plasma
 - (c) Gas
 - (d) Vapour
3. Discovery of the Neutron by: **[Ans: (c) Chadwick]**
 - (a) Thomson
 - (b) Rutherford
 - (c) Chadwick
 - (d) Dalton
4. Acid present in Tamarind: **[Ans: (c) Tartaric Acid]**
 - (a) Citric
 - (b) Oxalic
 - (c) Tartaric
 - (d) Acetic
5. Chemical name of Baking Soda: **[Ans: (b) Sodium Bicarbonate]**
 - (a) Carbonate
 - (b) Bicarbonate
 - (c) Chloride
 - (d) Hydroxide
6. Metal liquid at room temperature: **[Ans: (b) Mercury]**
 - (a) Bromine
 - (b) Mercury
 - (c) Silver
 - (d) Gold

7. Main component of LPG: **[Ans: (c) Butane]**
- (a) Methane
 - (b) Ethane
 - (c) Butane
 - (d) Propane
8. Best conductor of electricity: **[Ans: (b) Silver]**
- (a) Copper
 - (b) Silver
 - (c) Gold
 - (d) Aluminium
9. pH of pure water: **[Ans: (c) 7]**
- (a) 0
 - (b) 14
 - (c) 7
 - (d) 5.6
10. Cinnabar is an ore of: **[Ans: (b) Mercury]**
- (a) Lead
 - (b) Mercury
 - (c) Iron
 - (d) Aluminium
11. Gas used in fire extinguishers: **[Ans: (c) CO₂]**
- (a) Oxygen
 - (b) Nitrogen
 - (c) CO₂
 - (d) Helium
12. Brass is an alloy of: **[Ans: (a) Copper & Zinc]**
- (a) Copper & Zinc
 - (b) Copper & Tin
 - (c) Lead & Tin
 - (d) Iron & Nickel
13. Lead in a pencil is actually: **[Ans: (b) Graphite]**
- (a) Lead
 - (b) Graphite
 - (c) Coal
 - (d) Carbon
14. Hardest natural substance: **[Ans: (b) Diamond]**
- (a) Gold
 - (b) Diamond

- (c) Iron
- (d) Granite

15. Chemical formula of Urea:

[Ans: (a) NH_2CONH_2]

- (a) NH_2CONH_2
- (b) NaHCO_3
- (c) CaSO_4
- (d) NaCl

16. Acid in ant stings:

[Ans: (b) Formic Acid]

- (a) Acetic
- (b) Formic
- (c) Citric
- (d) Lactic

17. 'Milk of Magnesia' is:

[Ans: (c) Magnesium Hydroxide]

- (a) MgO
- (b) MgSO_4
- (c) $\text{Mg}(\text{OH})_2$
- (d) MgCO_3

18. Non-metal liquid at room temperature:

[Ans: (c) Bromine]

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

19. Laughing gas is:

[Ans: (b) Nitrous Oxide]

- (a) Nitric Oxide
- (b) Nitrous Oxide
- (c) Nitrogen Dioxide
- (d) NO

20. Galvanization uses:

[Ans: (c) Zinc]

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

21. Isotope of Carbon used in dating:

[Ans: (b) C-14]

- (a) C-12
- (b) C-14
- (c) C-13
- (d) C-11

22. Acid rain pH is generally:

[Ans: (c) Below 5.6]

- (a) 7
- (b) 10
- (c) 5.6
- (d) 8.2

23. Main gas in Atmosphere:

[Ans: (b) Nitrogen]

- (a) Oxygen
- (b) Nitrogen
- (c) CO₂
- (d) Argon

24. Atomic number is the number of:

[Ans: (a) Protons]

- (a) Protons
- (b) Neutrons
- (c) Protons + Neutrons
- (d) Electrons

25. Bronze is an alloy of:

[Ans: (b) Copper & Tin]

- (a) Cu & Zn
- (b) Cu & Sn
- (c) Fe & Ni
- (d) Pb & Sn

26. Vulcanization of rubber uses:

[Ans: (b) Sulphur]

- (a) Phosphorus
- (b) Sulphur
- (c) Carbon
- (d) Silicon

27. Chemical name of Common Salt:

[Ans: (b) Sodium Chloride]

- (a) NaHCO₃
- (b) NaCl
- (c) Na₂CO₃
- (d) NaOH

28. Dry Ice is:

[Ans: (b) Solid CO₂]

- (a) Liquid Nitrogen
- (b) Solid CO₂
- (c) Frozen Water
- (d) Solid NH₃

29. Acid in Lemon:

[Ans: (b) Citric Acid]

- (a) Lactic
- (b) Citric
- (c) Tartaric

(d) Formic

30. Bauxite is an ore of:

[Ans: (c) Aluminium]

- (a) Iron
- (b) Copper
- (c) Aluminium
- (d) Zinc

31. Nobel Prize founder Alfred Nobel invented:

[Ans: (c) Dynamite]

- (a) Gunpowder
- (b) Penicillin
- (c) Dynamite
- (d) Radium

32. Artificial Silk is:

[Ans: (b) Rayon]

- (a) Nylon
- (b) Rayon
- (c) Polyester
- (d) Silk

33. Gas in light bulbs:

[Ans: (c) Argon]

- (a) Oxygen
- (b) Nitrogen
- (c) Argon
- (d) Neon

34. pH of Blood:

[Ans: (b) 7.4]

- (a) 6.5
- (b) 7.4
- (c) 8.5
- (d) 7.0

35. Metal used in Fuse wire:

[Ans: (b) Lead-Tin alloy]

- (a) Copper
- (b) Lead-Tin
- (c) Silver
- (d) Aluminium

36. Ozone layer protects from:

[Ans: (b) UV rays]

- (a) IR rays
- (b) UV rays
- (c) X-rays
- (d) Gamma

37. Chemical formula of Water:

[Ans: (a) H₂O]

- (a) H₂O

- (b) CO_2
- (c) NaCl
- (d) H_2SO_4

38. Acid in Vinegar:

[Ans: (b) Acetic Acid]

- (a) Formic
- (b) Acetic
- (c) Citric
- (d) Tartaric

39. Rusting of iron is:

[Ans: (b) Oxidation]

- (a) Reduction
- (b) Oxidation
- (c) Carbonation
- (d) Hydration

40. Sweetest natural sugar:

[Ans: (b) Fructose]

- (a) Glucose
- (b) Fructose
- (c) Sucrose
- (d) Lactose

41. 'Yellow cake' refers to:

[Ans: (b) Uranium Oxide]

- (a) Plutonium
- (b) Uranium
- (c) Thorium
- (d) Radium

42. Discovery of Electron by:

[Ans: (a) J.J. Thomson]

- (a) Thomson
- (b) Bohr
- (c) Dalton
- (d) Chadwick

43. Discovery of Proton by:

[Ans: (b) Rutherford]

- (a) Thomson
- (b) Rutherford
- (c) Chadwick
- (d) Bohr

44. Most malleable metal:

[Ans: (b) Gold]

- (a) Silver
- (b) Gold
- (c) Platinum
- (d) Aluminium

45. Percentage of Carbon in Diamond: **[Ans: (d) 100%]**
- (a) 50%
 - (b) 75%
 - (c) 90%
 - (d) 100%
46. Soda water contains: **[Ans: (b) CO₂]**
- (a) Oxygen
 - (b) CO₂
 - (c) Nitrogen
 - (d) Hydrogen
47. Saccharin is how many times sweeter than sugar? **[Ans: (c) 550]**
- (a) 100
 - (b) 250
 - (c) 550
 - (d) 1000
48. Aspirin is an: **[Ans: (a) Analgesic]**
- (a) Analgesic
 - (b) Antacid
 - (c) Antibiotic
 - (d) Antiseptic
49. Rodenticide chemical: **[Ans: (b) Aluminium phosphide]**
- (a) DDT
 - (b) Al-phosphide
 - (c) Thiram
 - (d) Bordeaux
50. pH scale discovered by: **[Ans: (b) Sorensen]**
- (a) Lewis
 - (b) Sorensen
 - (c) Arrhenius
 - (d) Bronsted