

CHAPTER 3

1. Which of the following elements is a metal?

- a) Carbon
- b) Oxygen
- c) Sodium
- d) Chlorine

Answer: c) Sodium

2. Which of the following elements is a non-metal?

- a) Calcium
- b) Nitrogen
- c) Copper
- d) Aluminium

Answer: b) Nitrogen

3. Which of the following is a physical property of metals?

- a) Brittle
- b) Dull
- c) Poor conductor of heat and electricity
- d) Malleable

Answer: d) Malleable

4. Which of the following is a physical property of non-metals?

- a) Shiny
- b) Malleable
- c) Ductile
- d) Brittle

Answer: d) Brittle

5. Which of the following elements is a metalloid?

- a) Carbon
- b) Oxygen
- c) Silicon
- d) Chlorine

Answer: c) Silicon

6. Which of the following is a chemical property of metals?

- a) High electronegativity
- b) Low melting and boiling points
- c) Tend to lose electrons and form cations
- d) Tend to gain electrons and form anions

Answer: c) Tend to lose electrons and form cations

7. Which of the following is a chemical property of non-metals?

- a) Tend to lose electrons and form cations
- b) Tend to gain electrons and form anions
- c) Good conductors of heat and electricity
- d) High melting and boiling points

Answer: b) Tend to gain electrons and form anions

8. Which of the following is a metal?

- a) Iodine
- b) Bromine
- c) Mercury
- d) Fluorine

Answer: c) Mercury

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

- a) Copper
- b) Zinc
- c) Nitrogen

d) Aluminium

Answer: c) Nitrogen

10. Which of the following is a metalloid?

a) Oxygen

b) Carbon

c) Sodium

d) Chlorine

Answer: b) Carbon

11. Which of the following is a physical property of metals?

a) Brittle

b) Dull

c) Good conductor of heat and electricity

d) Non-lustrous

Answer: c) Good conductor of heat and electricity

12. Which of the following is a physical property of non-metals?

a) Malleable

b) Ductile

c) Good conductor of heat and electricity

d) Poor conductor of heat and electricity

Answer: d) Poor conductor of heat and electricity

13. Which of the following is a chemical property of metals?

a) Tend to gain electrons and form anions

b) Tend to lose electrons and form cations

c) High electronegativity

d) Low melting and boiling points

Answer: b) Tend to lose electrons and form cations

14. Which of the following is a chemical property of non-metals?

- a) Tend to lose electrons and form cations
- b) Tend to gain electrons and form anions
- c) High melting and boiling points
- d) Good conductors of heat and electricity

Answer: b) Tend to gain electrons and form anions

15. Which of the following is a metal?

- a) Helium
- b) Iron
- c) Nitrogen
- d) Fluorine

Answer: b) Iron

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

- a) Magnesium
- b) Calcium
- c) Sulphur
- d) Copper

Answer: c) Sulphur

17. Which of the following is a metalloid?

- a) Sodium
- b) Carbon
- c) Chlorine
- d) Oxygen

Answer: b) Carbon

18. Which of the following is a physical property of metals?

- a) Poor conductor of heat and electricity
- b) Brittle
- c) Ductile

d) Non-lustrous

Answer: c) Ductile

19. Which of the following is a physical property of non-metals?

a) High melting and boiling points

b) Malleable

c) Ductile

d) Brittle

Answer: d) Brittle

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

a) Iron

b) Copper

c) Sulphur

d) Sodium

Answer: c) Sulphur

21. Which of the following is a chemical property of non-metals?

a) Tend to lose electrons and form cations

b) Tend to gain electrons and form anions

c) Low electronegativity

d) High melting and boiling points

Answer: b) Tend to gain electrons and form anions

22. Which of the following is a metal?

a) Carbon

b) Sodium

c) Fluorine

d) Nitrogen

Answer: b) Sodium

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

- a) Copper
- b) Iron
- c) Sulphur
- d) Magnesium

Answer: c) Sulphur

24. Which of the following is a metalloid?

- a) Sodium
- b) Carbon
- c) Chlorine
- d) Oxygen

Answer: b) Carbon

25. Which of the following is a physical property of metals?

- a) Poor conductor of heat and electricity
- b) Brittle
- c) Ductile
- d) Non-lustrous

Answer: c) Ductile

26. Which of the following is a physical property of non-metals?

- a) High melting and boiling points
- b) Malleable
- c) Ductile
- d) Brittle

Answer: d) Brittle

27. Which of the following is a chemical property of metals?

- a) Tend to gain electrons and form anions
- b) Tend to lose electrons and form cations
- c) High electronegativity

d) Low melting and boiling points

Answer: b) Tend to lose electrons and form cations

28. Which of the following is a chemical property of non-metals?

a) Tend to lose electrons and form cations

b) Tend to gain electrons and form anions

c) High melting and boiling points

d) Good conductors of heat and electricity

Answer: b) Tend to gain electrons and form anions

29. Which of the following is a metal?

a) Carbon

b) Iron

c) Fluorine

d) Sodium

Answer: d) Sodium

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

a) Magnesium

b) Calcium

c) Sulphur

d) Copper

Answer: c)

31. Which of the following is a metalloid?

a) Iron

b) Carbon

c) Chlorine

d) Silicon

Answer: d) Silicon

32. Which of the following is a physical property of metals?

- a) Poor conductor of heat and electricity
- b) Brittle
- c) Ductile
- d) Non-lustrous

Answer: c) Ductile

33. Which of the following is a physical property of non-metals?

- a) High melting and boiling points
- b) Malleable
- c) Ductile
- d) Brittle

Answer: d) Brittle

34. Which of the following is a chemical property of metals?

- a) Tend to gain electrons and form anions
- b) Tend to lose electrons and form cations
- c) High electronegativity
- d) Low melting and boiling points

Answer: b) Tend to lose electrons and form cations

35. Which of the following is a chemical property of non-metals?

- a) Tend to lose electrons and form cations
- b) Tend to gain electrons and form anions
- c) High melting and boiling points
- d) Good conductors of heat and electricity

Answer: b) Tend to gain electrons and form anions

36. Which of the following is a metal?

- a) Carbon
- b) Iron
- c) Fluorine

d) Sodium

Answer: d) Sodium

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

a) Magnesium

b) Calcium

c) Sulphur

d) Copper

Answer: c) Sulphur

38. Which of the following is a metalloid?

a) Iron

b) Carbon

c) Chlorine

d) Silicon

Answer: d) Silicon

39. Which of the following is a physical property of metals?

a) Poor conductor of heat and electricity

b) Brittle

c) Ductile

d) Non-lustrous

Answer: c) Ductile

40. Which of the following is a physical property of non-metals?

a) High melting and boiling points

b) Malleable

c) Ductile

d) Brittle

Answer: d) Brittle

41. Which of the following is a chemical property of metals?

- a) Tend to gain electrons and form anions
- b) Tend to lose electrons and form cations
- c) High electronegativity
- d) Low melting and boiling points

Answer: b) Tend to lose electrons and form cations

42. Which of the following is a chemical property of non-metals?

- a) Tend to lose electrons and form cations
- b) Tend to gain electrons and form anions
- c) High melting and boiling points
- d) Good conductors of heat and electricity

Answer: b) Tend to gain electrons and form anions

43. Which of the following is a metal?

- a) Carbon
- b) Iron
- c) Fluorine
- d) Sodium

Answer: d) Sodium

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

- a) Magnesium
- b) Calcium
- c) Sulphur
- d) Copper

Answer: c) Sulphur

45. Which of the following is a metalloid?

- a) Iron
- b) Carbon
- c) Chlorine

d) Silicon

Answer: d) Silicon

46. Which of the following is a physical property of metals?

a) Poor conductor of heat and electricity

b) Brittle

c) Ductile

d) Non-lustrous

Answer: c) Ductile

47. Which of the following is a physical property of non-metals?

a) High melting and boiling points

b) Malleable

c) Ductile

d) Brittle

Answer: d) Brittle

48. Which of the following is a chemical property of metals?

a) Tend to gain electrons and form anions

b) Tend to lose electrons and form cations

c) High electronegativity

d) Low melting and boiling points

Answer: b) Tend to lose electrons and form cations

49. Which of the following is a chemical property of non-metals?

a) Tend to lose electrons and form cations

b) Tend to gain electrons and form anions

c) High melting and boiling points

d) Good conductors of heat and electricity

Answer: b) Tend to gain electrons and form anions

50. Which of the following is a metal?

a) Carbon

b) Iron

c) Fluorine

d) Sodium

Answer: d) Sodium