

CHAPTER 5

Question 1: Which of the following is a characteristic of the modern periodic table?

- a) Elements are arranged in order of increasing atomic mass
- b) Elements are arranged in order of increasing atomic number
- c) Elements are arranged in order of increasing number of protons
- d) Elements are arranged in order of increasing number of neutrons

Answer: b) Elements are arranged in order of increasing atomic number

Question 2: Which of the following elements has the lowest electronegativity?

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: a) Helium

Question 3: Which of the following elements has the highest melting point?

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

Answer: d) Iron

Question 4: Which of the following elements has the lowest ionization energy?

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: b) Lithium

Question 5: Which of the following elements is a transition metal?

- a) Sodium
- b) Calcium
- c) Iron
- d) Nitrogen

Answer: c) Iron

Question 6: Which of the following elements is a halogen?

- a) Sodium
- b) Calcium
- c) Chlorine
- d) Iron

Answer: c) Chlorine

Question 7: Which of the following elements has the highest atomic radius?

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: b) Lithium

Question 8: Which of the following elements is a noble gas?

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: a) Helium

Question 9: Which of the following elements is a metalloid?

- a) Arsenic
- b) Sodium
- c) Chlorine

d) Calcium

Question 11: Which of the following elements is a metal?

a) Nitrogen

b) Sodium

c) Chlorine

d) Oxygen

Answer: b) Sodium

Question 12: Which of the following elements has the highest electronegativity?

a) Helium

b) Lithium

c) Fluorine

d) Carbon

Answer: c) Fluorine

Question 13: Which of the following elements is a non-metal?

a) Sodium

b) Calcium

c) Chlorine

d) Iron

Answer: c) Chlorine

Question 14: Which of the following elements has the highest ionization energy?

a) Helium

b) Lithium

c) Fluorine

d) Carbon

Answer: a) Helium

Question 15: Which of the following elements is a metalloid?

a) Nitrogen

- b) Sodium
- c) Arsenic
- d) Calcium

Answer: c) Arsenic

Question 16: Which of the following elements is a representative element?

- a) Sodium
- b) Calcium
- c) Iron
- d) Nitrogen

Answer: a) Sodium

Question 17: Which of the following elements is a lanthanide?

- a) Sodium
- b) Calcium
- c) Iron
- d) Gadolinium

Answer: d) Gadolinium

Question 18: Which of the following elements is an actinide?

- a) Sodium
- b) Calcium
- c) Uranium
- d) Nitrogen

Answer: c) Uranium

Question 19: Which of the following elements has the highest melting point?

- a) Sodium
- b) Calcium
- c) Carbon
- d) Tungsten

Answer: d) Tungsten

Question 20: Which of the following elements has the highest electron affinity?

- a) Hydrogen
- b) Lithium
- c) Fluorine
- d) Oxygen

Answer: c) Fluorine

21: Which of the following elements is a noble gas?

- a) Neon
- b) Sodium
- c) Chlorine
- d) Calcium

Answer: a) Neon

Question 22: Which of the following elements has the lowest electronegativity?

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: a) Helium

Question 23: Which of the following elements is an alkali metal?

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

Answer: b) Sodium

Question 24: Which of the following elements has the highest atomic radius?

- a) Helium

- b) Lithium
- c) Fluorine
- d) Carbon

Answer: b) Lithium

Question 25: Which of the following elements is a halogen?

- a) Nitrogen
- b) Sodium
- c) Chlorine
- d) Calcium

Answer: c) Chlorine

Question 26: Which of the following elements is a transition metal?

- a) Sodium
- b) Calcium
- c) Iron
- d) Nitrogen

Answer: c) Iron

Question 27: Which of the following elements is a metalloid?

- a) Nitrogen
- b) Sodium
- c) Arsenic
- d) Calcium

Answer: c) Arsenic

Question 28: Which of the following elements is a non-metal?

- a) Sodium
- b) Calcium
- c) Chlorine
- d) Iron

Answer: c) Chlorine

Question 29: Which of the following elements has the highest density?

- a) Sodium
- b) Calcium
- c) Iron
- d) Osmium

Answer: d) Osmium

Question 30: Which of the following elements has the highest boiling point?

- a) Sodium
- b) Calcium
- c) Carbon
- d) Tungsten

Answer: d) Tungsten

- a) Helium
- b) Lithium
- c) Fluorine
- d) Carbon

Answer: c) Fluorine

Question 31: Which of the following elements is a noble gas?

- a) Helium
- b) Potassium
- c) Chlorine
- d) Calcium

Answer: a) Helium

Question 32: Which of the following elements has the highest electronegativity?

- a) Helium
- b) Lithium

c) Fluorine

d) Carbon

Answer: c) Fluorine

Question 33: Which of the following elements is an alkaline earth metal?

a) Nitrogen

b) Sodium

c) Chlorine

d) Magnesium

Answer: d) Magnesium

Question 34: Which of the following elements has the smallest atomic radius?

a) Helium

b) Lithium

c) Fluorine

d) Carbon

Answer: c) Fluorine

Question 35: Which of the following elements is a halogen?

a) Nitrogen

b) Sodium

c) Chlorine

d) Calcium

Answer: c) Chlorine

Question 36: Which of the following elements is a transition metal?

a) Sodium

b) Calcium

c) Iron

d) Nitrogen

Answer: c) Iron

Question 37: Which of the following elements is a metalloid?

- a) Nitrogen
- b) Sodium
- c) Arsenic
- d) Calcium

Answer: c) Arsenic

Question 38: Which of the following elements is a non-metal?

- a) Sodium
- b) Calcium
- c) Chlorine
- d) Iron

Answer: c) Chlorine

Question 39: Which of the following elements has the lowest density?

- a) Sodium
- b) Calcium
- c) Iron
- d) Lithium

Answer: d) Lithium

Question 40: Which of the following elements has the lowest boiling point?

- a) Sodium
- b) Calcium
- c) Carbon
- d) Helium

Answer: d) Helium

Question 41: Which of the following elements has the highest melting point?

- a) Sodium
- b) Calcium

- c) Carbon
- d) Tungsten

Answer: d) Tungsten

Question 42: Which of the following elements is a lanthanide?

- a) Scandium
- b) Yttrium
- c) Europium
- d) Lutetium

Answer: c) Europium

Question 43: Which of the following elements is a noble metal?

- a) Silver
- b) Copper
- c) Gold
- d) Iron

Answer: c) Gold

Question 44: Which of the following elements is a chalcogen?

- a) Nitrogen
- b) Oxygen
- c) Chlorine
- d) Calcium

Answer: b) Oxygen

Question 45: Which of the following elements is a p-block element?

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

Answer: c) Carbon

Question 46: Which of the following elements is a halogen?

- a) Nitrogen
- b) Sodium
- c) Chlorine
- d) Calcium

Answer: c) Chlorine

Question 47: Which of the following elements is a d-block element?

- a) Sodium
- b) Calcium
- c) Iron
- d) Nitrogen

Answer: c) Iron

Question 48: Which of the following elements is a metal?

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

Answer: a) Sodium

Question 49: Which of the following elements is a metalloid?

- a) Nitrogen
- b) Silicon
- c) Chlorine
- d) Calcium

Answer: b) Silicon

Question 50: Which of the following elements has the highest ionization energy?

- a) Sodium
- b) Calcium

c) Carbon

d) Neon

Answer: d) Neon