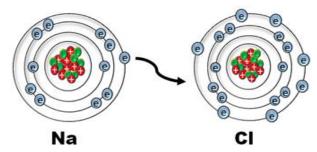
Chemistry Important MCQs

Class 9 Chapter 4

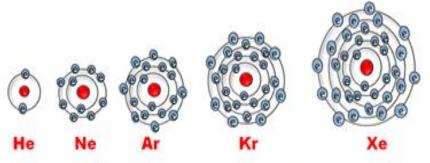
- Atoms react with each other to attain _____.
- A) Power
- **B) Stability**
- C) Inertia
- D) None of them



- ☐ To become stable
- ☐ To complete the valence shell electrons
- ☐ Get the noble gas configuration

Answer: B (Stability)

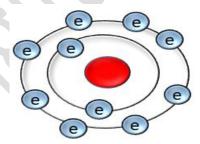
- 2) The ____ have ns², np⁶ electronic configuration in the outermost shell.
- A) Noble gases
- B) Micro gases
- C) Compressed gases
- D) All of them



Noble gases having complete valence(outermost) shell configuration Therefore, noble gases are non-reactive & stable

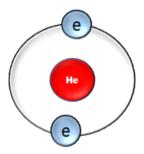
Answer: A (Noble gases)

- 3) The tendency of atoms to have ____ electron configuration in their valence shell while bonding, is called the octet rule.
- A) Four
- B) Five
- C) Eight
- D) Nine



Answer: C (Eight)

- 4) Helium contains two electrons in its valence shell and is also chemically _____.
- A) Very reactive
- B) Inert
- C) Colloidal
- D) Imperfect



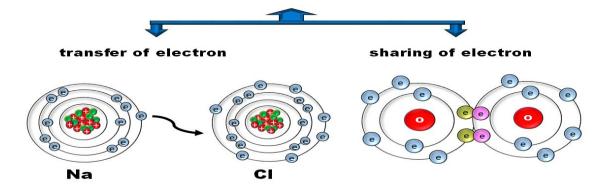
Answer: B (Inert)

- 5) The tendency of some atoms to attain ____ electron configuration in their valence shell while bonding, is called the duplet rule.
- A) One
- B) Seven
- C) Two
- D) None of them

Answer: C (Two)

- 6) The force of attraction that holds the atoms together in substances is called ____.
- A) Gelling
- B) Joints
- C) Booking
- D) Chemical bonds

CHEMICAL BONDS

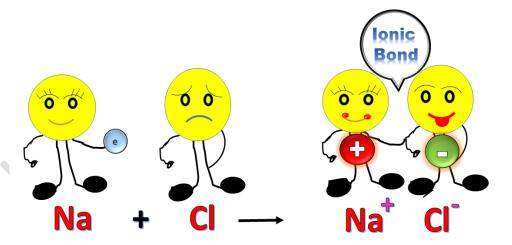


Answer: D (Chemical bonds)

- 7) Atoms other than the can react with other elements.
- A) Noble gases
- B) Metals
- C) Metalloids
- D) None of them

Answer: A (Noble gases)

- 8) The bond formed due to the complete transfer of electrons is called ____
- A) Metallic bond
- B) Co-ordinate bond
- C) lonic bond
- D) Nelson's bond



Answer: C (Ionic bond)

9) When one atom loses an elec	ctron it forms
A) Bond	
B) Cation	
C) Negative ion	
D) None of them	
Answer: B (Cation)	
10) When an atom gains an elec	ctron it forms
A) Anion	
B) Positive ion	
C) Alpha rays	
D) Beta rays	
Answer: A (Anion)	
11) Compounds that consist of	ions held by electrostatic forces are called compounds.
A) Metallic	
B) Gaseous	
C) Mustard	
D) Ionic	
Answer: D (Ionic)	
12) Ionic compounds as a whole	e are electrically
A) Double Positive	
B) Beta rays	
C) Neutral	
D) Protons	
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Answer: C (Neutral)

13) Ionic bonds are also called _____ bonds.

A) Electro-valent

- B) Dative
- C) Co-ordinate
- D) None of them



Answer: A (Electro-valent)

14) The bond formed by the mutual sharing of electrons is called ___.

A) Covalent bond

- B) Electro-valent bond
- C) Metallic bond
- D) All of these

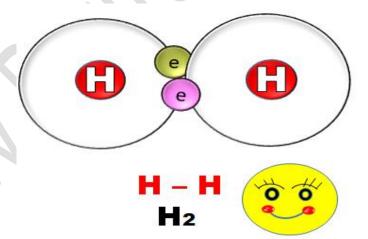


Answer: A (Covalent bond)

- 15) Lone pairs are pairs of valence electrons that are ____
- A) Shared
- B) Not shared
- C) Transferred
- D) All of these

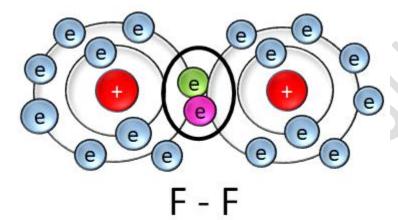
Answer: B (Not shared)

- 16) Covalent bond that is formed by the mutual sharing of one electron pair is called ____ covalent bond.
- A) Lone
- B) Single
- C) Mono
- D) Co-ordinate



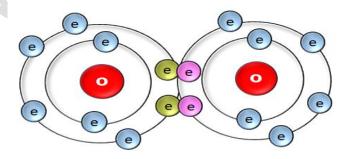
Answer: B (Single)

- 17) F_2 molecule is an example of ___ covalent bond.
- A) Double
- B) Quadruple
- C) Single
- D) Ionic



Answer: C (Single)

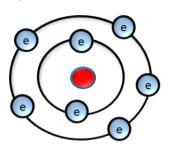
- 18) Double covalent bond is formed by the sharing of ____ electron pairs.
- A) One
- B) Six
- C) Zero
- D) Two



Answer: D (Two)

- 19) N₃ molecule is an example of ____ covalent bond.A) Co-ordinateB) Poly
- D) None of them

C) Triple

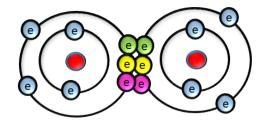


N-atom (5 Valence e-)

Unstable

After sharing

Get the noble gas configuration & becomes stable



Answer: C (Triple)

Nitrogen

- 20) Triple covalent bond is formed by the mutual sharing of ___ electron pairs.
- A) Three
- B) Single
- C) Six
- D) Eight

Answer: A (Three)

- 21) Which of the following contains a double covalent bond?
- A) N_2
- B) O₂
- C) Na₂
- D) He

Answer: B (O ₂)	
22) When the electronegativity difference be bond formed is called	between two elements is greater than 1.7 then the
A) Ionic bond	
B) Metallic bond	
C) Helium bond	
D) All of these	X
Answer: A (Ionic bond)	
	on pairs, then both the atoms exert the same irs such a covalent bond is called covalent bond.
A) Polar	
B) Non-polar	
C) Electro-static	
D) Neutral	
Answer: B (Non-polar)	
-,0,1	
	on pairs, then both atoms exert a different amount a covalent bond is called covalent bond.
A) Polar	
B) Non-polar	
C) Electro-valent	
D) Non-ionized	
Answer: A (Polar)	
25) Inter-molecular forces are than ionic	and covalent bonds.
A) Volatile	
B) Weaker	
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C) Static
D) Rarer
Answer: B (Weaker)
26) Dipole-dipole interactions occur between molecules.
A) Non-ionic
B) Electro-valent
C) Polar
D) None of them
Answer: C (Polar)
27) Which of the following atom will not form an ion
A) A (Atomic number = 19)
B) B (Atomic number = 21)
C) C (Atomic number = 14)
D) D (Atomic number = 18)
Answer: D (Atomic number = 18)
28) An atom with atomic number = 3 will form a
A) Beta ray
B) Gamma ray
C) Cation
D) None of them
Answer: C (Cation)

29) Tin belongs to Group IV A it contains valence electrons.
A) 14
B) 24
C) 4
D) 34
Answer: C (4)
30) Find out the ionic compound.
A) F ₂
B) H ₂ O
C) NaCl
D) None of them
Answer: C (NaCl)
31) Aqueous solutions ofconduct electricity.
A) Ionic compounds
B) Hydrogen compounds
C) Nitrate compounds
D) All of them
Answer: A (Ionic compounds)
32) In water, the ions are about in the aqueous solution.
A) Free to move
B) Stagnant
C) Rotating
D) Horrific
Answer: A (Free to move)
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33) Which of the following	g will form an ionic compound?
A) H, O	
B) K, Cl	
C) H, Cl	
D) C, O	
Answer: B (K,Cl)	
34) In CsCl every Cs ⁺ ion is	s surrounded by – Cl ions.
A) 18	
B) 28	
C) 8	
D) 19	
Answer: C (8)	
35) Both NaCl and CsCl for	rm colorless crystals.
A) Rectangular	.01
B) Pyramidal	
B) Pyramidal C) Trigonal	
C) Trigonal	
C) Trigonal D) Cubic	
C) Trigonal D) Cubic Answer: D (Cubic)	almost all the ionic compounds are solids.
C) Trigonal D) Cubic Answer: D (Cubic)	almost all the ionic compounds are solids.
C) Trigonal D) Cubic Answer: D (Cubic) 36) At room temperature	almost all the ionic compounds are solids.
C) Trigonal D) Cubic Answer: D (Cubic) 36) At room temperature A) Metallic	almost all the ionic compounds are solids.
C) Trigonal D) Cubic Answer: D (Cubic) 36) At room temperature A) Metallic B) Crystalline	almost all the ionic compounds are solids.

37) Ionic compounds have melting points.	
A) Immeasurable	
3) Low	
C) Transitional	
D) High	
Answer: D (High)	
38) Sodium chloride's melting point is °C.	
A) 80°C	
3) 934 °C	
C) 801 °C	
D) 108 °C	
Answer: C (801 °C)	
39) The adhesive function of paints and dyes is due to bonding.	
A) Hydrogen	
B) Electric	
C) Peculiar	
D) Metallic	
Answer: A (Hydrogen)	
10) There are _ electrons in the outermost shell of inert gases.	
A) 8	
3) 18	
C) 05	
0) 03	
Answer: A (8)	
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41) Which of the following will tend to achieve two electron configuration in the valence shell?
A) Sc
B) Li
C) Pb
D) Po
Answer: B (Li)
42) All of the following pairs of elements will form a covalent bond except
A) H, O
B) C, O
C) Na, Cl
D) H, Cl
Answer: C (Na, CI)
43) The interaction of electron-deficient hydrogen and lone pair on a nearby highly electronegative atom such as is called a hydrogen bond. Select the correct set of elements.
A) S, N, P
B) Na, Cl, Ar
C) N, O, F
D) None of them
Answer: C (N, O, F)