

U4A – I/M/A&B Nomenclature TWITTER Review

U4A-1:

- A) What two types of elements make up ionic compounds (in order)?
B) Ionic Compounds are held together by _____ bonds.

- Answer: A) Metal (Cation) + Non-metal (Anion) B) Ionic

U4A-2:

- A) What two types of elements make up covalent (molecular) compounds?
B) Covalent (molecular) Compounds are held together by _____ bonds.

- Answer: A) Non-metal + Non-metal B) Covalent

U4A-3: Acids produce _____ cations in solution.

- Answer: Hydrogen (H⁺)

U4A-4: Bases produce _____ ions in solution.

- Answer: Hydroxide (OH⁻)

U4A-5: Provide the nomenclature of the following:

- A) Na₃P
B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Sodium Phosphide ; ionic

U4A-6: Provide the nomenclature of the following:

- A) BF₃
B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Boron Trifluoride ; covalent (molecular)

U4A-7: Provide the nomenclature of the following:

- A) H₂S
B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Hydrosulfuric Acid ; acid

U4A-8: Provide the nomenclature of the following:

- A) P₂O₅
B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Diphosphorus Pentoxide ; covalent (molecular)

U4A-9: Provide the nomenclature of the following:

A) $\text{Ca}(\text{OH})_2$

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Calcium Hydroxide ; base

U4A-10: Provide the nomenclature of the following:

A) H_3PO_4

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Phosphoric Acid ; acid

U4A-11: Provide the nomenclature of the following:

A) CuCl_2

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Copper (II) Chloride ; ionic

U4A-12: Provide the nomenclature of the following:

A) Ag_3N

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Silver Nitride ; ionic

U4A-13: Provide the nomenclature of the following:

A) HBr

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Hydrobromic Acid ; acid

U4A-14: Provide the nomenclature of the following:

A) PbO_2

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Lead (IV) Oxide ; ionic

U4A-15: Provide the nomenclature of the following:

A) Gold (II) Phosphide

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Au_3P_2 ; ionic

U4A-16: Provide the nomenclature of the following:

A) Dinitrogen Pentoxide

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: N_2O_5 ; covalent (molecular)

U4A-17: Provide the nomenclature of the following:

- A) Lead (IV) Iodide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: PbI_4 ; ionic

U4A-18: Provide the nomenclature of the following:

- A) Sulfur Pentachloride
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: SCl_5 ; covalent (molecular)

U4A-19: Provide the nomenclature of the following:

- A) Cobalt (II) Hydroxide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Co}(\text{OH})_2$; base

U4A-20: Provide the nomenclature of the following:

- A) Aluminum Phosphate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: AlPO_4 ; ionic

U4A-21: Provide the nomenclature of the following:

- A) Sulfurous Acid
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: H_2SO_3 ; acid

U4A-22: Provide the nomenclature of the following:

- A) Ammonium Bromide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: NH_4Br ; ionic

U4A-23: Provide the nomenclature of the following:

- A) Pernitric Acid
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: HNO_4 ; acid

U4A-24: Provide the nomenclature of the following:

- A) Xenon Hexafluoride
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: XeF_6 ; covalent (molecular)

U4A-25: Provide the nomenclature of the following:

A) Lead (IV) Sulfite

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Pb}(\text{SO}_3)_2$; ionic

U4A-26: Provide the nomenclature of the following:

A) Hypochlorous Acid

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: HClO ; acid

U4A-27: Provide the nomenclature of the following:

A) As_2O_3

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Diarsenic Trioxide ; covalent (molecular)

U4A-28: Provide the nomenclature of the following:

A) HgS

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Mercury (II) Sulfide ; ionic

U4A-29: Provide the nomenclature of the following:

A) Se_4S_4

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Tetraselenium Tetrasulfide ; covalent (molecular)

U4A-30: Provide the nomenclature of the following:

A) $\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2$

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Magnesium Acetate ; ionic

U4A-31: Provide the nomenclature of the following:

A) Si_2Br_6

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Disilicon Hexabromide ; covalent (molecular)

U4A-32: Provide the nomenclature of the following:

A) HNO_2

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Nitrous Acid ; acid

U4A-33: Provide the nomenclature of the following:

- A) $\text{Ca}_3(\text{PO}_3)_2$
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Calcium Phosphite ; ionic

U4A-34: Provide the nomenclature of the following:

- A) Aluminum Selenide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Al_2Se_3 ; ionic

U4A-35: Provide the nomenclature of the following:

- A) Silver Oxide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Ag_2O ; ionic

U4A-36: Provide the nomenclature of the following:

- A) Ammonium Acetate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$; ionic

U4A-37: Provide the nomenclature of the following:

- A) Barium Sulfate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: BaSO_4 ; ionic

U4A-38: Provide the nomenclature of the following:

- A) Rubidium Hydroxide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: RbOH ; base

U4A-39: Provide the nomenclature of the following:

- A) SbCl_3
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Antimony Trichloride ; covalent (molecular)

U4A-40: Provide the nomenclature of the following:

- A) Nickel (II) Arsenide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Ni_3As_2 ; ionic

U4A-41: Provide the nomenclature of the following:

- A) Triselenium Diphosphide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: Se_3P_2 ; covalent (molecular)

U4A-42: Provide the nomenclature of the following:

- A) Carbonic Acid
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: H_2CO_3 ; acid

U4A-43: Provide the nomenclature of the following:

- A) Hydroiodic Acid
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: HI ; acid

U4A-44: Provide the nomenclature of the following:

- A) Scandium (III) Chromate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Sc}_2(\text{CrO}_4)_3$; ionic

U4A-45: Provide the nomenclature of the following:

- A) Chromium (III) Cyanide
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Cr}(\text{CN})_3$; ionic

U4A-46: Provide the nomenclature of the following:

- A) Silver Nitrate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: AgNO_3 ; ionic

U4A-47: Provide the nomenclature of the following:

- A) Hydronitric Acid
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: H_3N ; ionic

U4A-48: Provide the nomenclature of the following:

- A) Cadmium Sulfate
- B) Ionic, Covalent (molecular), Acid/Base?

- Answer: CdSO_4 ; ionic

U4A-49: Provide the nomenclature of the following:

A) Tin (II) Nitrate

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Sn}(\text{NO}_3)_2$; ionic

U4A-50: Provide the nomenclature of the following:

A) Lead (IV) Chlorate

B) Ionic, Covalent (molecular), Acid/Base?

- Answer: $\text{Pb}(\text{ClO}_3)_4$; ionic