

## 4. LANGUAGE OF CHEMISTRY - NAMES OF SYMBOLS SOLUTIONS

### TEACHING TASK

1. Symbol of Mendelevium is

- A)No                      B)Md                      C)Mn                      D)Me

Solution:Mendelevium (atomic number 101) has the symbol Md, named after Dmitri Mendeleev.

**Answer:B**

2. The name of 'C' is

- A)Calcium                      B)Cadmium                      C)Carbon                      D)Chromium

Solution:The symbol C stands for Carbon (atomic number 6).

**Answer:C**

3. Latin name of Iron:

- A)Cuprum                      B)Wolfram                      C)Stibium                      D)Ferrum

Solution:Iron's symbol Fe comes from its Latin name Ferrum.

**Answer:D**

4. Berkelium is named after which city?

- A)America                      B)Poland                      C)City of Berkely                      D)None

Solution:Berkelium (Bk, atomic number 97) is named after Berkeley, California, where it was discovered.

**Answer:C**

5. Latin name of Mercury is....

- A)Plumbum                      B)Hydragrym                      C)Plumbum                      D)Aurum

Solution:Mercury's symbol Hg comes from its Latin name Hydrargyrum (meaning "liquid silver").

**Answer:B**

6. Curium is named after scientist.....

- A)Mendeleev                      B)Alfred Nobel                      C)Madam Curie                      D)None

Solution:Curium (Cm, atomic number 96) honors Marie Curie, the Nobel Prize-winning physicist/chemist.

**Answer:C**

7. Pd stands for

- A)Platinum                      B)Palladium                      C)Stibium                      D)Wolfram

Solution:Pd is the symbol for Palladium (atomic number 46), named after the asteroid Pallas.

**Answer:B**

8. The element is named after the name of country is

- A)Curium                      B)Fermium                      C)Silver                      D)Ruthenium

Solution:Ruthenium (Ru, atomic number 44) is named after Ruthenia, the Latin name for Russia.

**Answer:D**

9. Symbol of Cadmium is

- A)Cl                      B)Ca                      C)Cd                      D)Cm

Solution:Cadmium (atomic number 48) has the symbol Cd, derived from its Latin name Cadmia.

**Answer:C**

10. Latin name of tin is

- A)Stibium              B)Stannum              C)Strontium              D)Ruthenium

Solution:Tin's symbol Sn comes from its Latin name Stannum.

**Answer:B**

**MULTIPLE CORRECT ANSWER TYPE**

11. The elements named after their countries are

- A)Berkelium              B)Californium              C)Curium              D)Ruthenium

SolutionThe elements named after countries are:

- Ruthenium (Russia)
- Berkelium (Berkeley)
- Californium (California)

**Answer:A,B,D**

12. Which of the following is/are correct?

- A) Sulphur-S              B)Cobalt-CO              C)Sodium- Na              D)Antimony-sB.

Solution: A) Sulphur - S (Correct symbol)

C) Sodium - Na (From Latin Natrium)

B) Cobalt - CO → Wrong! Correct symbol is Co (CO is carbon monoxide).

D) Antimony - sB → Wrong! Correct symbol is Sb (from Latin Stibium).

**Answer:A,C**

**STATEMENT TYPE**

13. **Statement -I:**Latin name of Antimony is Stibium.

**Statement -II:** Latin name of Copper is Cuprum.

Solution:Statement-I (True): The Latin name for Antimony is indeed Stibium (symbol Sb).

Statement-II (True): The Latin name for Copper is Cuprum (symbol Cu).

Relationship: Both statements are true, but Statement-II does not explain Statement-I. They are independent facts.

**Answer:B**

14. **Statement -I:** Symbol of Iron is Fe.

**Statement -II:** Symbol of Tungsten is T.

Solution:Statement-I (True): Iron's symbol is Fe (from Latin Ferrum).

Statement-II (False): Tungsten's symbol is W (from its German name Wolfram), not "T".

**Answer:C**

**COMPREHENSION TYPE**

**Comprehension-1:**

15. The element Nobelium is named after the scientist

- A)Madam Curie                      B)Mendelevium  
C)Alfred Nobel                      D)Enrico Fermi

Solution:Nobelium (No, atomic number 102) is named after Alfred Nobel, the founder

of the Nobel Prizes.

It was discovered in 1957 and named to honor his contributions to science and peace.

**Answer:C**

16. Latin name of 'K' is:

- A)Kalium                      B)Katrium                      C)Argentum                      D)Aurum

Solution:The symbol K for potassium comes from its Latin name Kalium.

**Answer:A**

17. Latin name of Gold

- A)Argentum                      B)Aurum                      C)Kalium                      D)Stannum

Solution:Gold's symbol Au is derived from its Latin name Aurum

**Answer:B**

### **INTEGER TYPE:**

18. Among Copper,Iron ,Silver Neon and Flourine, How many elements symbols are based on latin names?

Solution:Elements and Their Symbols:

Copper → Symbol Cu (from Latin Cuprum)

Iron → Symbol Fe (from Latin Ferrum)

Silver →Symbol Ag (from Latin Argentum)

Neon → Symbol Ne (from Greek Neos, not Latin)

Fluorine →Symbol F (from Latin Fluere, but the symbol is based on the English name).

**Answer:3**

### **MATRIX MATCH TYPE:**

19.Solution:

#### **COLUMN-I**

- A. Tin  
B. Tungsten  
C.Polonium  
D.Mendelevium

#### **COLUMN-II**

- 3.Stannum  
1.Wolfram  
2.Poland  
5. Mendelev

**Answer:A-3,B-1,C-2,D-5**

20. **Solution:**

#### **COLUMN-I**

- A.Hydragyrum  
B. Plutonium  
C. Fermium  
D. Germanium

#### **COLUMN-II**

- 4.Mercury  
3.Pluto  
2.Enrico Fermi  
1.Germany

**Answer:A-4,B-3,C-2,D-1**

## LEARNERS TASK

### CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

1. Latin name of tungsten is

- A)Wolfram                      B)Stibium                      C)Aurum                      D)Natrium

Solution:Tungsten's symbol W comes from its German name Wolfram.

**Answer:A**

2. Symbol of Curium is

- A)Cu                      B)Ci                      C)Cm                      D)Cd

Solution:Curium (atomic number 96) has the symbol Cm, named after Marie and Pierre Curie.

**Answer:C**

3. Symbol of lead

- A)Pb                      B)W                      C)Cd                      D)Na

Solution:Lead's symbol Pb comes from its Latin name Plumbum.

**Answer:A**

4. The symbol for silver in the periodic table is

- A)Ag                      B) Au                      C) Al                      D) Li

Solution:Silver's symbol Ag comes from its Latin name Argentum

**Answer:A**

5. Ca is the symbol of the element \_\_\_\_\_

- A) Calcium                      B)Cadmium                      C)Cobalt                      D)Chlorine

Solution:Ca is the symbol for Calcium (atomic number 20).

**Answer:A**

6. The element named after the name of 'America' is

- A)American                      B)Amerium                      C)Americium                      D)Ameritium

Solution:Americium (Am, atomic number 95) is named after the continent America.

**Answer:C**

7. Symbol of Gold is

- A)Ag                      B)AU                      C)Au                      D)Go

Solution:Gold's symbol Au comes from its Latin name Aurum.

**Answer:C**

8. The element named after the name of Enrico Fermi is

- A)Flourine                      B)Einsteinium                      C)Fermium                      D)Francium

Solution:Fermium (Fm, atomic number 100) honors physicist Enrico Fermi.

**Answer:C**

9. The element named after the name of planet is:

- A)Carbon                      B)Americium                      C)Einsteinium                      D)Neptunium

Solution:Neptunium (Np, atomic number 93) is named after the planet Neptune.

**Answer:D**

10. Symbol of Germanium is

- A)G                      B)Gm                      C)Ge                      D)gE

Solution:Germanium (atomic number 32) has the symbol Ge.

**Answer:C**

## JEE MAIN LEVEL QUESTIONS

1. Latin name of Antimony is  
A)Stibium                      B)Wolfram                      C)Stannum                      D)Plumbum.

Solution:Antimony's symbol Sb comes from its Latin name Stibium.

**Answer:A**

2. Latin name of Copper is  
A) Carbon                      B)Cuprum                      C)Calcium                      D)Cobalt

Solution:Copper's symbol Cu is derived from Cuprum.

**Answer:B**

3. Symbol of Beryllium is  
A)B                      B)be                      C)Be                      D)By

Solution:Beryllium's symbol is Be (first letter capitalized, second lowercase in chemical symbols).

**Answer:C**

4. Symbol of Barium is  
A)Br                      B)Ba                      C)Bo                      D)Be

Solution:Barium's symbol is Ba.

**Answer:B**

5. Latin name of Silver is  
A)Natrium                      B)Cuprum                      C)Stannum                      D)Argentum

Solution:Silver's symbol Ag comes from Argentum.

**Answer:D**

6. Symbol of sodium is  
A)S                      B)Na                      C)Se                      D)Si

Solution:Sodium's symbol Na comes from its Latin name Natrium.

**Answer:B**

7. A symbol represents short form of an .....  
A)Compound                      B)Element                      C)Mixture                      D)Radical

Solution:Chemical symbols represent elements

**Answer:B**

8. The elements named after latin names are  
A)Sodium                      B)Potassium                      C)Lead                      D)All

Solution:Sodium (Na from Natrium), Potassium (K from Kalium), and Lead (Pb from Plumbum) all have Latin-derived symbols

**Answer:D**

9. Symbol of Ruthenium  
A)Re                      B)Ru                      C)Ra                      D)Rh

Solution:Ruthenium's symbol is Ru.

**Answer:B**

10. Symbol of Manganese  
A)Mg                      B)Ma                      C)MN                      D)Mn

Solution:Manganese's symbol is Mn



**Answer:D**

## ADVANCED LEVEL QUESTIONS

### MULTIPLE CORRECT ANSWER TYPE

11. The elements named after scientist names are:

- A) Mendelevium    B) Fermium    C) Nobelium    D) Neptunium

Solution: A) Mendelevium (Md) – Named after Dmitri Mendeleev (creator of the periodic table).

B) Fermium (Fm) – Named after Enrico Fermi (nuclear physicist).

C) Nobelium (No) – Named after Alfred Nobel (founder of the Nobel Prize).

D) Neptunium (Np) – Named after the planet Neptune, not a scientist.

**Answer:A,B,C**

12. The elements having symbols based their latin names are

- A) Copper    B) Manganese    C) Iron    D) Tin

Solution: A) Copper (Cu) – From Latin Cuprum.

C) Iron (Fe) – From Latin Ferrum.

D) Tin (Sn) – From Latin Stannum.

B) Manganese (Mn) – Symbol derived from the English name, not Latin.

**Answer:A,C,D**

### COMPREHENSION TYPE

13. The element named after the planet 'Uranus' is

- A) Plutonium    B) Neptunium    C) Uranium    D) Polonium

Solution: Uranium (U) is named after the planet Uranus.

Atomic number: 92

**Answer:C**

14. 'Es' stands for

- A) Fermium    B) Enrico Fermi    C) Einsteinium    D) Albert Einstein.

Solution: Einsteinium (Es) is named after Albert Einstein.

Atomic number: 99

**Answer:C**

15. Latin name of 'K' is:

- A) Kalium    B) Katrium    C) Argentum    D) Aurum

Solution: The symbol K for potassium comes from its Latin name "Kalium"

**Answer:A**

16. Latin name of Tungsten is:

- A) Stibium    B) Wolfram    C) Plumbum    D) Cuprum

Solution: Tungsten's symbol is W from its German name "Wolfram"

**Answer:B**

17. Latin name of Gold

- A) Argentum    B) Aurum    C) Kalium    D) Stannum

Solution: Gold's symbol Au comes from the Latin "Aurum"

**Answer:B**

**INTEGER TYPE:**

18. Number of elements named after planet are.....

Solution: Elements named after planets:

Uranium (U, 92)  $\rightarrow$  Uranus

Neptunium (Np, 93)  $\rightarrow$  Neptune

Plutonium (Pu, 94) → Pluto (dwarf planet)

Tellurium (Te, 52) → Earth (from Tellus, Latin for Earth)

**Answer:4**

19 Atomic number of Sodium is .....

Solution: Sodium (Na) has atomic number 11.

Its symbol Na comes from Latin Natrium.

**Answer:11**

20. Sum of digits of atomic number of Copper .....

Solution: Copper (Cu) has atomic number 29.

Sum of digits:  $2 + 9 = 11$ .

**Answer:11**

21. Atomic number of Potassium is.....

Solution: Potassium (K) has atomic number 19.

Its symbol K comes from Latin Kalium.

Answer:19

## Teaching Task

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
B	C	D	C	B	C	D	C	B	A
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
A,B,D	AC	B	C	C	A	B	3	3,1,2,5	4,3,2,1

## Learners Task

### CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
A	C	A	A	A	C	C	C	D	C

**JEE MAINS & ADVANCED LEVEL**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
A	B	C	B	D	B	B	D	B	D
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
ABC	ACD	C	C	A	B	B	4	11	11
<b>21 -19</b>									

