

**PHYSICAL SCIENCE**  
**FORMATIVE ASSESSMENT-2**  
**( 2019-2020)**

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**Max.Marks:20**

CLASS: 9

NAME OF THE STUDENT: \_\_\_\_\_

ROLL NO: \_\_\_\_\_

**I) Answer the following questions**

**4X1=4M**

- 1.If Z=5, What would be the valency of the of the element?
- 2.What is the atomic number and number of neutrons in  ${}_{19}\text{K}^{39}$
- 3.Frame two questions to understand "Homogeneous mixture"
- 4.3g of Hydrogen reacts with 24g of Oxygen to produce 27g of Water. Which law supports the given information

**II) Answer the following questions.**

**2x2=4M**

- 5.Complete the following table

Anions → ↓Cations	Chloride	Hydroxide
Potassium		
Zinc		

- 6.What are the applications of isotopes

**III) Answer the following questions.**

**2x4=8M**

- 7.Write the postulates of Bohr's model of an atom

**(OR)**

Write the steps you would use for making tea. Use the following words given below and write the steps for making tea.

*solution, solvent, solute, dissolve, soluble, insoluble, filtrate and residue*

- 8.How do you separate two miscible liquids whose boiling points difference is more than 25°C. Draw a neat diagram of the process?

**(OR)**

Write the law of conservation of mass. Draw the diagram to show the experimental setup for the law of conservation of mass

**IV) Choose the correct answer from the given choices**

**8x1/2=4M**

- 9.**Radha:** Salt is a compound

**Rajani:** Salt is a mixture. Who is correct?

( )

- A)Radha      B)Rajani      C) Both      D) None of these

- 10.Which of the following is a colloidal dispersion?

( )

- A)salt solution    B)mixture of oil and water    C)shoe- polish    D)sand and water

- 11.Tyndall Effect cannot be shown by

( )

- A)colloids    B)suspensions    C)emulsions    D)solutions

- 12.Avogadro constant (N)=

( )

- A) $6.022 \times 10^{20}$     B) $6.022 \times 10^{21}$     C) $6.022 \times 10^{22}$     D) $6.022 \times 10^{23}$

- 13.Molecular mass of  $\text{H}_2\text{SO}_4$  is

( )

- A)18u      B)48u      c)98u      D)100u

- 14.The common name of hydrogen monoxide is

( )

- A) water    B)salt    C)washing soda    D)Baking soda

- 15.The property of having 8 electrons in the outer most orbit is called

( )

- A)Atomicity    B)Valency    C)Octet    D)Inertness

- 16.The charge of alpha particle is

( )

- A) positive    B)negative    C)neutral    D)no charge