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PHYSICAL SCIENCE
FORMATIVE ASSESSMENT-3
(2019-2020)

CLASS: 10 **Max.Marks:20**

NAME OF THE STUDENT:_____ **ROLL NO:**_____

I)Answer the following questions **5X1=5M**

1.If an element X-forms a compound XCl_2 then what is the valency of X?

2. How does metallic character change when move in a period and a group?

3.Define Conductivity

4.On what factors affecting the formation of cation or anion

5.Expand VSEPRT

II) Answer the following questions. **2x2=4M**

6.What are the limitations of Mendeleeff's perodic table

7. Why do ionic compounds dissolve in polar solution and covalent compounds dissolve in non polar solution?

III) Answer the following questions. **2x4=8M**

8.What is hybridization? Explain the formation of NH_3 molecule using hybridisation

(OR)

Complete the following table using the periodic table

Period number	Total no. of elements	Elements		Total no. of elements in			
		From	To	s-block	p-block	d-block	f-block
1							
2							
3							
4							
5							
6							
7							

9.How do you find experimentally that V/I is constant for Ohmic conductors

(OR)

Deduce the expression for the equivalent resistance of three resistors connected in series.

IV) Answer the following with one word or phrase. **6x1/2=3M**

10. X:The f-block elements known as lanthanoids and actinoids
Y:The f-block elements are shown separately at the bottom of the periodic table.
Which statement is correct?

11.What type of hybridization present in water molecule

12.Which compounds exhibit high melting and boiling points?

13.If the potential difference in a circuit is 240 V and the resistance is 60Ω then find the current flowing through the circuit?

14. Which of the following is not a covalent compound

a) $BeCl_2$ b) BF_3 c) $Cacl_2$ d) CH_4

15.Match the following

1) Eka boron	p) Gallium
2) Eka Aluminium	q) Germanium
3) Eka Silicon	r) Scandium