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J.E.E./A.I.P.M.T.Foundation - XI Chemistry Worksheet

Time: 30 min Ch#3 : Classification of Elements and Periodicity in Properties -04 Full Marks: 20 Instructions:

- 1. All questions are compulsory.
- 2. Please give the explanation for the answer where applicable.

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Q1 - Explain Newland's law of octave.	<i>,</i>
	(2 Marks)
Q2 - What are Dobereiner's triads?	
	(2 Marks)
OO () What was Marchele are and all along	
Q3 - (i) What was Mendeleev's periodic law?	
(ii) What are the advantages of his periodic table?	
	(3 Marks)
Q4 - Give reasons for the following	
(i)The size of Ga is smaller than Al.	
(ii)BF ₃ acts as Lewis acid.	
(iii) CCI ₄ does not undergo hydrolysis.	
(iv)PbCl ₂ does not react with chlorine to form PbCl ₄ .	
(v)CO is poisonous in nature.	
	(5 Marks)
Q5 - Why IUPAC names are assigned to elements having atomic number > 100?	
Q6 - Write the modern day name of the element which Mendeleev named as Eka – aluminium ar silicon	(1 Mark) nd Eka –
	(1 Mark)
Q7 - Name the transition metal which has the highest melting point.	
	(1 Mark)
Q8 - Why does the first element of each group of p- block of modern periodic table shows anomal properties?	alous
	(2 Marks)
Q9 - Predict the formula of the stable binary compounds that would be formed by the following p	oair of

(i)Silicon and oxygen.

elements.

- (ii) Gallium and chlorine.
- (iii) Barium and bromine.

(3 Marks)