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

Time: 30 min Ch#10: The s-Block Elements-01 Full Marks: 20

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

Q1 - What is the general electronic configuration of the outermost shell of alkali metals?	(1 Mark)
Q2 - What are the main sources of lithium?	(1 Mark)
Q3 - Which alkaline earth metal forms covalent compound?	(1 Mark)
Q4 - Alkali metals and their salts give characteristic colour of the flame. Explain?	(2 Marks)
Q5 - A piece of burning magnesium ribbon continues to burn in SO2.why?	(2 Marks)
Q6 - Beryllium and Magnesium do not give colour to the flame why?	(2 Marks)
Q7 - When an alkali metal dissolves in liquid ammonia, the solution acquires different colours	Explain? (3 Marks)
Q8 - Comment on the following: i) KO_2 is paramagnetic. ii) BeO is insoluble but $BeSO_4$ is soluble in water. iii) Lithium is the only alkali metal which forms nitride directly.	
	(3 Marks)
Q9 - Discuss the position of alkali metals in the periodic table. Also discuss the trends in some atomic and physical properties in the group.	•
	(5 Marks)