**Chemistry Multiple-Choice Questions**

Question 1: Identify the product formed when methane reacts with chlorine in the presence of sunlight.

(a) C2 Cl6

(b) CH3 Cl

(c) CHCl3

(d) none of these

Question 2: Which is denatured spirit?

(a) ethanol only

(b) ethanol & methanol (50%)

(c) ethanol & methanol (5%)

(d) none of these

Question 3: The by-product of soap is...

(a) isoprene

(b) glycerol

(c) butane

(d) ethylene glycol

Question 4: Vinegar is a solution of...

(a) 30-40% acetic acid in alcohol

(b) 5-8% acetic acid in alcohol

(c) 5-8% acetic acid in water

(d) 15-20% acetic acid in water

Question 5: In the third period of the periodic table, the element having the smallest size is...

(a) Na

(b) Ar

(c) Cl

(d) Si

Question 6: Identify the group which is not a Döbereiner Triad.

(a) Li, Na, K

(b) Be, Mg, Cr

(c) Ca, Si, Ba

(d) Cl, Br, I

Question 7: Two elements X & Y have:

(i) X has 17 protons & 18 neutrons

(ii) Y has 17 protons & 20 neutrons

Both X & Y are...

(a) Isobars

(b) Isotopes

(c) Isotones

(d) none of these

Question 8: In the modern periodic table, the metals among the first ten elements are...

(a) Be, Na

(b) Li, Be

(c) Be, Li, Na

(d) Li, Na

Question 9: Which of the following has maximum non-metallic character?

(a) F

(b) Br

(c) Cl

(d) I