

4	Assertion : CH <sub>3</sub> COOH is used as vinegar in cooking and food preservatives.
	Reason: Strong acids are those acids which ionise almost completely in aqueous
	solution and hence produce a large amount of H +ions.
5	Assertion (A): A lead nitrate on thermal decomposition gives lead oxide, brown
	coloured nitrogen dioxide and oxygen gas.
	Reason (R): Lead nitrate reacts with potassium iodide to form yellow ppt. of lead iodide
•	and the reaction is double displacement as well as precipitation reaction.
6	Iqbal treated a lustrous, divalent element M with sodium hydroxide. He observed the
	formation of bubbles in reaction mixture. He made the same observations when this
	element was treated with hydrochloric acid. Suggest how can he identify the produced gas. Write chemical equations for both the reactions.
7	A metal carbonate X on reacting with an acid gives a gas which when passed through a
	solution Y gives the carbonate back. On the other hand, a gas G that is obtained at
	anode during electrolysis of brine is passed on dry Y, it gives a compound Z, used for
	disinfecting drinking water. Identify X, Y, G and Z.
8	Many children in a remote mountain village complain of swollen necks, the number
	of children with swollen neck keeps increasing every month ,a villager Tukaram who
	is superstitious thinks that village is cursed by a devil .Mukesh, another villager who
	thinks it as a diseasesuggests consultation with a doctor .
	a. Do you agree with Tukaram or Mukesh and why?
	b. What is the reason behind the swollen necks of the young children in the village?
	c. Does the location of their villages have anything to do with the reason of the disease.
•	d. Swollen necks are the symptom of which disease?
9	1.Make students stand in a line and whisper a complicated message in the ear of the first student.
	2. Let the process continue till the last student in the line.
	3. Ask the last student to call out the message.
	The message sent through the "telephone" changes as it passes between the
	students because small mistakes by students accumulate, much like small
	mutations (changes) in the DNA. In evolution, after enough time passes, mistakes
	add up to adaptations and can create new species that don't resemble the
	originals. (Sourced from the above source.)
	a. What causes changes in DNA during copying? What importance do variations
	serve?
	b. Are the traits in you are the same as your parents?
L	Syllabus for September Exams:
Chemistry: CH-1. Chemical Reactions and Equations	
CH-2 Acids Bases and Salts	

- CH-2. Acids, Bases and Salts
- CH-3. Metals and Non -Metals (till ionic compounds)
- Biology: CH-5. Life Processes
  - CH-6. Control and Coordination
    - CH-7 How do organisms reproduce
- Physics: CH-9. Light Reflection & Refraction CH-10. The Human Eye & The Colourful World