CHEMISTRY

BOOKS - VK GLOBAL PUBLICATION

CHEMISTRY (HINGLISH)

MODEL QUESTION PAPER-6

Section A

1. An organic compound with a sooty flame. Is it a saturated or an unsaturated compound?

Justify.

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2. Name the compound responsible for the depletion of ozone layer.

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3. Write the balanced chemical equation for the following reaction and identify the type of reaction and define it.

'Iron III oxide reacts with Aluminium and gives molten iron and aluminium oxide'.

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4. Name the following :

(a) A metal which is preserved in kerosene (b) A lustrous coloured non-metal

(c) A metal which can melt while kept on palm

(d) A metal which is poor conductor of heat.

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5. (a) Write the name given to bases that are highly soluble in water. Give an example.

(b) How is tooth decay related to pH? How can it be prevented?

(c) Why does bee sting cause pain and irritation? Rubbing of baking soda on the sting area gives relief. How?

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6. You have four solutions A, B, C and D. The pH of solution A is 6, B is 9, C is 12 and D is 7.

(a) Identify the most acidic and most basic solutions.

(b) Arrange the above four solutions in the increasing order of H^+ ion concentration.

(c) State the change in colour of pH paper on dipping in solution C and D.

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7. The position of three elements A, B and C in the Periodic Table is shown below:

Groups → / Periods ↓	1	2	3	4	5	6	7	8
1								
2			B					
3	A	C						

Giving reasons, explain the following:

(i) Element A is a metal.

(ii) Element C has larger size than element B.

(iii) Element B has a valency of 3.

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8. What are fossils? List two methods by which the age of fossils are determined.

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9. (a) In the formation of compound between two atoms A and B, A loses two electrons and B gains one electron.

(i) What is the nature of bond between A and B ?

(ii) Suggest the formula of the compound formed between A and B.

(b) On similar lines explain the formation of $MgCl_2$ molecule.

(c) Common salt conducts electricity only in the molten state. Why ?

(d) Why is melting point of $NaCl$ high ?

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10. An organic compound 'A' is widely used as a preservative in pickles and has a molecular formula $C_2H_4O_2$. The compound reacts with ethanol in presence of an acid to form a sweet smelling compound 'B'.

(a) Identify the compound 'A'.

(b) Write the chemical equation for its reaction with ethanol to form compound 'B'.

(c) How can you get 'A' back from 'B'?

(d) Name the process and write the

corresponding chemical equation.

(e) Which gas is produced when compound 'A' reacts with washing soda? Write the chemical equation.

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Section B

1. Which of these can be used to produce a colourless and odourless gas which gives a pop sound on buring?

(i) Zinc and dilute hydrochloric acid

(ii) Zinc and dilute sodium hydroxide solution

(iii) Sodium bicarbonate and dilute hydrochloric acid.

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2. A student adds a spoon full of powdered sodium hydrogen carbonate to a flask containing ethanoic acid. List two main observations, he must note in his note book,

about the reaction chat takes place. Also write chemical equation for the reaction.

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3. Why is some KOH placed in a small test tube in the flask with germinating seeds in the experiment to demonstrate occurrence of respiration in germinating seeds?

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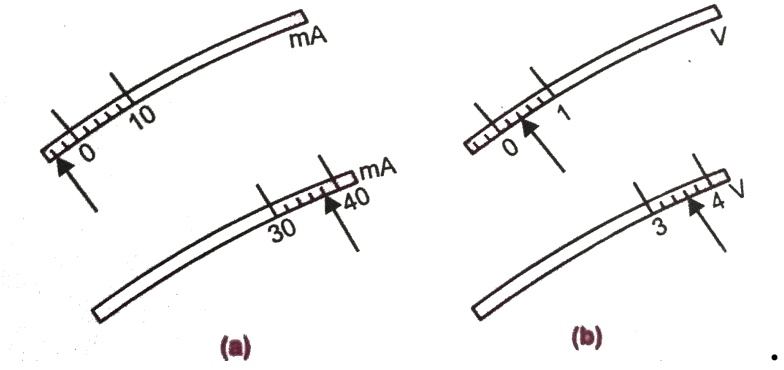
4. The rest positions of the needles in a milliammeter and voltmeter not in use are as shown in (Fig. 3.61)(a). When a student uses these in his experiment, the readings of the needles are in the positions shown in (Fig. 3.61)(b). Find the corrected values of current and voltage in the experiment.



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