



# CHEMISTRY

**BOOKS - VK GLOBAL PUBLICATION**

**CHEMISTRY (HINGLISH)**

**MODEL QUESTION PAPER - 4**

## Section A

1. Identify the functional group in the following compounds :

(a)  $CH_3COCH_3$

(b) HCOOH



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2. Name the source of energy from where an ecosystem gets energy.



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3. Give one example each of (i) change in state  
(ii) evolution of a gas.



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4. In nature, metal A is found in a free state while metal B is found in the form of its compounds. Which of these two will be nearer to the top of the activity series of metals?



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5. Illustrate any three chemical properties of acids. With examples.





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6. Write balanced equation for the reaction that takes place when sodium oxide reacts with water. How will this solution behave towards phenolphthalein and red litmus paper ?



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7. Be (4), Mg (12) and Ca (20) belong to the same group in the modern periodic table

(a) Name the period of each element.

(b) Write the electronic configuration of each element.



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8. Explain the consequences of deficiency of haemoglobin in our body (any three).



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**9.** What is the difference between a reflex action and walking?



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**10.** List any three advantages of using solar cooker for cooking instead of fossil fuels.



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**11.** Explain the given reactions with the examples.

(a) Hydrogenation reaction , (b) Oxidation reaction

(c ) Substitution reaction , (d) Saponification reaction

(e) Combustion reaction



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**Section B**

1. From an experiment to study the properties of acetic acid. Answer the following questions :

(a) Name the substance which on addition to acetic acid produces carbon dioxide gas. Give relevant chemical equation for the above ?

(b) How is  $CO_2$  gas tested in the laboratory?



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2. One student was assigned the experiment of interaction of iron nail with a solution of copper sulphate. What observations he/she



would have recorded as per given below ?

(a) Initial colour of the solution.

Final colour of the solution

(c) Change in the colour of iron nail. Mention the type of this reaction.



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