



# CHEMISTRY

BOOKS - VK GLOBAL PUBLICATION

CHEMISTRY (HINGLISH)

MODEL QUESTION PAPER-3

## Section A

1. What is glacial acetic acid? What is its melting point?



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2. Name the two elements which are present both in CNG and petroleum.



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3. Write the balanced chemical equation for the following reaction : Sodium metal reacts with water to give sodium hydroxide and hydrogen.



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4. Translate the following statements into balanced chemical equations: Ammonium chloride solution is added to barium hydroxide solution to give ammonium hydroxide and barium chloride.



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5. How is aluminium used to join railway tracks?



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6. Write the chemical name of baking soda.

Write balanced chemical equation for its preparation. Mention its one use.



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7. Na, Mg and Al are the elements of the 3<sup>rd</sup> period of the Modern Periodic Table having group number 1, 2 and 13 respectively . Which

one of these has the (a) highest valency (b) largest atomic radius, and (c ) maximum chemical reactivity? Justify your answer stating the reason for each.



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**8.** Name the following:

(i) The three carbon molecule that is formed due to break-down of glucose during respiration.

(ii) The nitrogenous waste that is removed from the blood in our kidneys



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**9.** Kritika observed that the tubelights in the corridor of her school were always switched on the whole day. She brought the matter to the notice of her class teacher who talked to the Principal about it. The Principal took immediate action.

Kritika was appreciated by the teachers and the Principal for portraying which values?



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**10.** Kritika observed that the tubelights in the corridor of her school were always switched on the whole day. She brought the matter to the notice of her class teacher who talked to the Principal about it. The Principal took immediate action.

How can the consumption of electricity be reduced in a school?



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



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12. A dry pellet of a common base B, When kept in open absorbs moisture and turns



sticky. The compound is also a by product of chloroalkali process . Identify B, what type of reaction occurs when B is treated with an acidic oxide? Write a balanced chemical equation for one such solution



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**13.** Write the structural formula of ethanol. What happens when it is heated with excess of conc.  $H_2SO_4$  acid at 443 K? Write the

chemical equation for the reaction, stating the role of conc.  $H_2SO_4$  acid in this reaction.



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14. Distinguish between esterification and saponification reactions of organic compounds with the help of the chemical equation for each. Write one use of (i) esters and (ii) saponification process?



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15. What is the function of Bowman's capsule and Glomerulus



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## Section B

1. While performing an experiment, a student observes that when he heats some green crystals in a boiling tube, the colour of the crystals changes to brown and a gas evolves

which smells like burning sulphur . Interpret the observations and results.



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2. A student is studying the properties of acetic acid in his school laboratory. List two physical and two chemical properties which he must observe and note in his record book.



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