



CHEMISTRY

BOOKS - VK GLOBAL PUBLICATION

CHEMISTRY (HINGLISH)

MODEL QUESTIONS PAPER - 5

Section A

1. Unsaturated hydrocarbons take part in addition reactions.

(a) Write the chemical equation for the reaction between propene and hydrogen. (b) Write the significance of this reaction in our daily life. Mention the function of catalyst in this reaction.



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2. List two changes in our habits which can make a difference in our energy consumption patterns.



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3. Explain one example of each of the following: (a) A redox reaction which is also a combination reaction. (b) A redox reaction which is also a displacement reaction.



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4. State the property utilized in the following: (a) Graphite is used in making electrodes. (b) Electrical wires are coated with polyvinyl chloride (PVC) or a rubber-like material.



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5. The enamel of the teeth is made of a compound 'X'. It is the hardest substance of the body. It does not dissolve in water but gets corroded when the pH of mouth is lowered below 5.5 (a) Identify the compound 'X' (b) How does it undergo damage due to eating sweets? What should we do to prevent tooth decay?



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6. For making cake, baking powder is taken. If at home your mother uses baking soda instead of baking powder in cake.

(a) How will it affect the taste of the cake and why?

(b) How can baking soda be converted in to baking powder ?

(c) What is the role of tartaric acid added to baking soda?



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7. The formulae of the oxides of two elements X and Y are XO and Y_2O_3 respectively.

(i) Find the valencies of X and Y.

(ii) Identify the groups in which they would be placed in the Modern Peri-odic Table.

(iii) Name one more element belonging to each of these groups.



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8. Define excretion. Write two vital functions of kidney.



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9. Which type of people are benefitted from the development of different resources? Why do we need to use the resources carefully?



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10. (a) Write structure of ethanol. Give chemical equation of its reaction with (i) sodium (ii) excess conc H_2SO_4 at 443 K. (b) (i) Write your observation, if you dip a red litmus

paper in soap solution. (ii) Explain the formation of scum in hard water. (iii) Suggest one method to remove the temporary hardness of water. 1



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Section B

1. Four students A, B, C and D were asked to carry out a decomposition reaction. Each one followed different method as mentioned

A: Heated aqueous solution of iron sulphate in a test tube

B: Added Zn granules to iron sulphate in a test tube and then heated the mixture

C: Heated crystals of iron sulphate in a test tube

D: Heated crystals of iron sulphate along with copper sulphate crystals in a china dish

Which student adopted the correct method?



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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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3. (a) What is least count of voltmeter ?

(b) In a voltmeter there are 20 divisions between the '0' mark and 0.5 V mark. Calculate its least count.





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