



# CHEMISTRY

BOOKS - VK GLOBAL PUBLICATION

CHEMISTRY (HINGLISH)

MODEL QUESTION PAPER -2

## Section A

1. Write the molecular formula of the 2nd and 3rd member of the homologous series whose first member is methane.



[Watch Video Solution](#)

2. In the following food chain, 100 J of energy is available to the lion. How much energy was available to the producer?

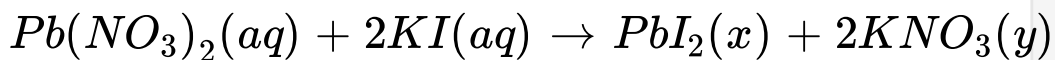
Plants  $\rightarrow$  Deer  $\rightarrow$  Lion



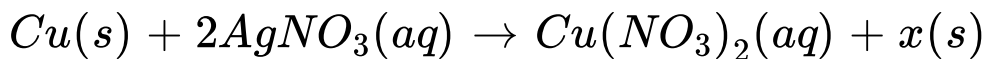
[Watch Video Solution](#)

3. Complete the missing components/variable given as  $x$  and  $y$  in the following reactions.

(a)



(b)



[Watch Video Solution](#)

4. In one method of rust prevention, the iron is not coated with anything. which is this method?



[Watch Video Solution](#)

5. An object is placed at a distance of 15 cm from a convex lens of focal length 20 cm. List four

characteristics (nature, position, etc.) of the image formed by the lens.



[Watch Video Solution](#)

6. Write the number of periods and groups in the Modern Periodic Table. How the metallic character of elements vary on moving (a) from left to right in a period, and (b) down a group? Give reason to justify your answer.



[Watch Video Solution](#)

7. Explain adaptive radiation with the help of a suitable example



**Watch Video Solution**

8. Differentiate between renewable and non-renewable sources of energy with one example for each.



**Watch Video Solution**

9. State what happens when a concentrated solution of sodium chloride (brine) is electrolysed? Name the process. Write the equation of the reaction involved. Write the names of product obtained. Mention one use of each product.



[Watch Video Solution](#)

10. Why are certain compounds called hydrocarbons? Write the general formula for homologous series of alkenes and alkynes and also draw the structure of the first member of each

series. Write the name of the reaction that converts alkenes into alkanes and also write a chemical equation to show the necessary conditions for the reaction to occur.



**Watch Video Solution**

11. (a) Explain how the separation of oxygenated and deoxygenated blood is useful in humans ?

(b) Why is double circulation of blood necessary in humans ?



**Watch Video Solution**

**12.** (a) Write the functions of each of the following parts in a human female reproductive system:

(i) Ovary (ii) Uterus (iii) Fallopain tube

(b) Write the structure and functions of placenta in a human female.



**Watch Video Solution**

## Section B

**1.** While demonstrating a reaction in laboratory, a teacher added small amount of sodium sulphate



solution to barium chloride solution in a test tube.

(a) Name the products obtained. Are the products soluble in each other

(b) Write the type of chemical reactions in this case.



[Watch Video Solution](#)

2. A student takes 4 mL of distilled water in each of four test tubes I, II, III and IV, and then dissolves an equal amount of four different salts namely  $NaCl$  in I,  $CaCl_2$  in II,  $MgCl_2$  in III and  $KCl$  in IV. He then adds 8 drops of the given soap

solution to each test tube and shakes the contents of the test tube 10 times. In which test tubes will enough lather (foam) be formed?



**Watch Video Solution**