

Class: VI
Mid-Term Examination (2025-26)
Subject: Chemistry
Marking Key Set: C1/C2

General Instructions: - All questions are compulsory. - Read the questions carefully and answer them in neat handwriting.			
Q 1	Q 1	MCQ: (i) Why cannot a tumbler made of cloth be used for storing water? (a) Because cloth is too heavy (b) Because cloth is not shiny (c) Because cloth is not transparent (d) Because it is not capable of holding water. (ii) The image shows two containers filled with water placed outside a house, one under a tree and one under the sun. What is the observation of this setup?  (a) The container in shade collects more rainwater. (b) There are more insects in the garden. (c) Water evaporates faster in sunlight as compared to the shade. (d) Water should be kept near the plants to grow faster. (iii) The objects given in the image below can be classified on the basis of:  <i>Glass tumbler</i>  <i>Butter paper</i>  <i>Eraser</i> (a) Soluble or insoluble in water (b) Materials through which one can see or cannot see (c) Heavy or light objects (d) Hard or soft materials	1*3

Q 2	Q 2	Assertion - Reason Question. Two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes a), b), c) and d) as given below: (a) Both A and R are true, and R is correct explanation of the assertion (b) Both A and R are true, but R is not the correct explanation of the assertion. (c) A is true, but R is false. (d) A is false, but R is true. Assertion: Evaporation plays an important role while colouring with water colours. Reason: The water present in colours dry due to the process of evaporation. Ans: (a) Both A and R are true, and R is correct explanation of the assertion	1
Q 4	Q 3	(a) The aquatic organism shown in the image below needs which gas for survival? How is this gas obtained by them?  (b) Two similar containers are filled with water as shown below. In what way both containers are different?  Ans: (a) Gas needed: Oxygen (O_2), it is soluble in water from where aquatic plants and animals absorb it. (b) The space occupied by water in the first container is different i.e volumes are different.	2
Q 3	Q 4	<u>SET 1</u> On a hot summer day we add ice cubes to a glass of juice at room temperature. Give reasons for the following observations.	2



(a) Why does the ice disappear and juice feels cold after a few minutes of adding ice?

(b) Why do the water droplets appear on the outer surface of a cold glass of juice?

Ans:

(a) Ice cubes absorb the heat from the juice and melt, this makes the juice colder.

(b) Due to condensation. The air surrounding the glass contains water vapor. When this warm, moist air comes into contact with the cold surface of the glass, water vapour condenses into droplets.

SET 2

Give reasons why:

(a) Water kept in surahi is colder than the water in a stainless steel pot during summers.



(b) During a morning walk it is generally noticed that all flowers and grass had dew drops on them.



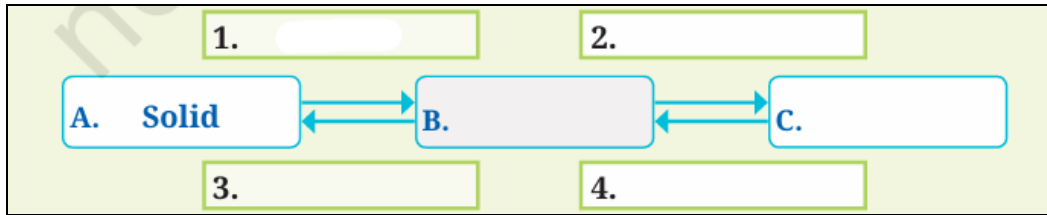
Ans:

(i) Water in an earthen pot feels cooler because the pot's porous surface allows some water to evaporate. This evaporation absorbs heat from the remaining water, lowering its temperature, unlike a stainless steel pot, which doesn't allow evaporation.

(ii) Dew drops are more visible in the morning because overnight cooling causes water vapor to condense on cool surfaces like plants. As temperatures drop, the

		air's capacity to hold moisture decreases, forming dew.																													
Q 5	Q 5	(a) Why does the space around natural grass feel cooler than space around plastic grass? (b) Why do we notice the smell of the food being cooked even without entering the kitchen? (c) Why is water sprinkled on the floor or the roof during summer? Ans: (a) Natural grass absorbs and evaporates water through its surface, which helps in cooling the surrounding area whereas the plastic grass does not absorb and evaporate water. (b) It is because the smell of yummy food from cooking spreads through the air and reaches our nostrils, even if we are not in the kitchen. (c) Because evaporation of water from the surface of the roof will cause cooling. OR Complete the following table describing properties of different states of water: <table><tr><th>Property</th><th>Solid</th><th>Liquid</th><th>Gas</th></tr><tr><td>Shape</td><td></td><td></td><td></td></tr><tr><td>Ability to spread</td><td></td><td></td><td></td></tr></table> <table><tr><th>Prop-erty</th><th>Ice (Solid state)</th><th>Water (Liquid state)</th><th>Water Vapour (Gaseous state)</th></tr><tr><td>Shape</td><td>Retains its shape (e.g., cube)</td><td>Takes the shape of its container</td><td>No definite shape, spreads out to fill the available space</td></tr><tr><td>Ability to flow</td><td>Does not flow</td><td>Flows easily</td><td>Flows easily and rapidly</td></tr><tr><td>Abil-ity to spread</td><td>Does not spread</td><td>Spreads out to cover a surface</td><td>Spreads out quickly and widely</td></tr></table> Ans:	Property	Solid	Liquid	Gas	Shape				Ability to spread				Prop-erty	Ice (Solid state)	Water (Liquid state)	Water Vapour (Gaseous state)	Shape	Retains its shape (e.g., cube)	Takes the shape of its container	No definite shape, spreads out to fill the available space	Ability to flow	Does not flow	Flows easily	Flows easily and rapidly	Abil-ity to spread	Does not spread	Spreads out to cover a surface	Spreads out quickly and widely	3
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Q 6	Q 6	Complete the following table by giving one word for the statements and suitable examples: <table><tr><th>Statement</th><th>Property</th><th>Example</th></tr><tr><td>Objects can be seen clearly through it</td><td>(a)</td><td>(i)</td></tr><tr><td>Occupies space and has mass</td><td>(b)</td><td>(ii)</td></tr><tr><td>Shiny surface</td><td>(c)</td><td>(iii)</td></tr></table>	Statement	Property	Example	Objects can be seen clearly through it	(a)	(i)	Occupies space and has mass	(b)	(ii)	Shiny surface	(c)	(iii)	5																
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		<table><tr><td>Mixes completely in water</td><td>(d)</td><td>(iv)</td></tr><tr><td>Objects through which we cannot see</td><td>(e)</td><td>(v)</td></tr></table> (a) Transparent , (i) Glass (b) Matter, (ii) Book, table etc (c) Lustre, (iii) Metals (d) Soluble, (iv) Salt (e) Opaque, (v) Brick OR (a) The containers which are used to store materials in shops and at home are usually transparent. Give your reasons for this. (b) Why is gold and silver used for making jewellery? (c) Choose which of the following material are soluble in water: Vinegar, Honey, Mustard oil, Glucose and wheat flour. (d) Define translucent objects. Give an example. Ans: (a) For easy visibility of the contents, enabling quick identification and locating objects. (b) Gold and silver appear shiny when light falls on them. (d) Translucent objects are those through which we cannot see clearly. Eg butter paper.	Mixes completely in water	(d)	(iv)	Objects through which we cannot see	(e)	(v)	
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Objects through which we cannot see	(e)	(v)							
Q 7	Q 7	Water can exist in three different states. In nature the water cycle beautifully shows the continuous movement of water in its different states, on, above, and below the surface of the Earth. This cycle involves various processes. Only a small portion of water available on the Earth is fit for use by plants, animals and humans. Most of the water is in the oceans and it cannot be used directly. We use water for drinking and also for many other activities (a) Identify the activities that involve evaporation. <table><tr><td>(i) Drying of clothes</td><td>(ii) Freezing water to ice</td></tr><tr><td>(iii) Melting of glaciers</td><td>(iv) Mopping of floors</td></tr></table> (b) Why do clothes dry slowly on a rainy day? <u>Attempt either (c) or (d)</u> (c) Name the process due to which clouds are formed. Explain this process.. OR (d) The following flow diagram represents the change of three states of water and the processes involved. Complete the flow diagram:	(i) Drying of clothes	(ii) Freezing water to ice	(iii) Melting of glaciers	(iv) Mopping of floors	4		
(i) Drying of clothes	(ii) Freezing water to ice								
(iii) Melting of glaciers	(iv) Mopping of floors								



Ans:

(b) On a rainy day, water evaporates slowly as the amount of water in air is already high (more humidity), water evaporates slowly.

(c) Condensation.

When hot & humid air rises above the Earth's surface, it becomes cooler such that the water vapour in it condenses into droplets. These small droplets float in the air and form clouds

OR

(d) Any 4 correct answers.

($\frac{1}{2} \times 4$)

