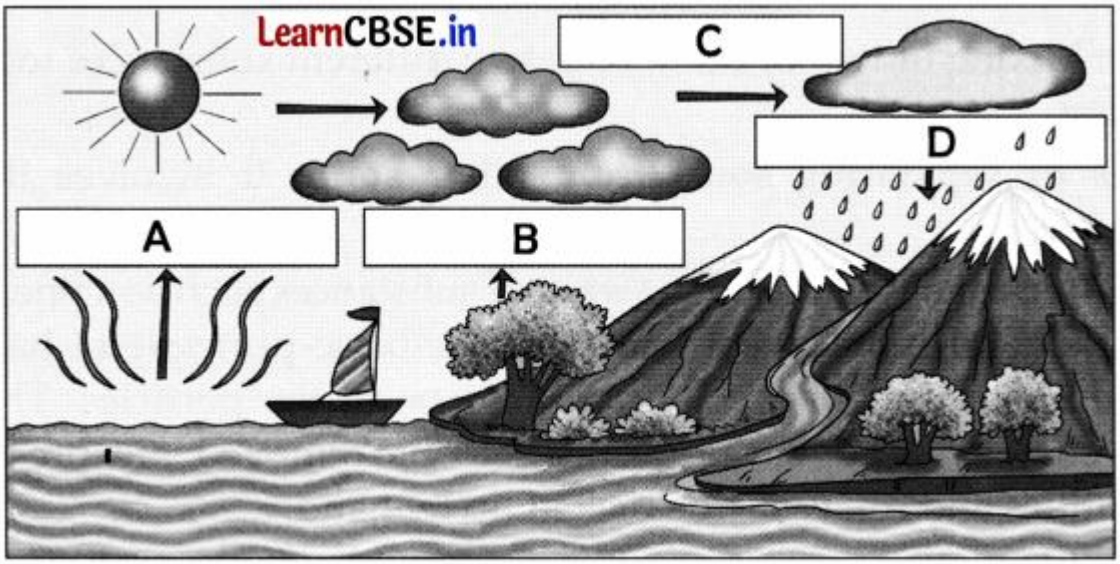
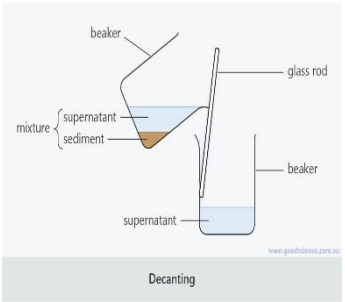
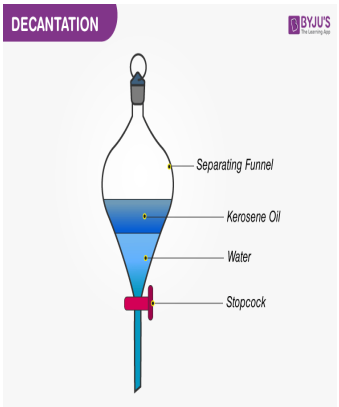
CLASS – VI
FINAL TERM EXAMINATION – 2024-25
SUBJECT – CHEMISTRY
SET-A1/A2 (SOLUTION)

MAX. MARKS-20

General Instructions:
1. Please check that this question paper has 4 printed sheets.
2. All questions are compulsory.
3. Q1 TO Q4 are objective type questions (MCQ/ Assertion Reason) of 1 mark each.
4.Q5 and Q6 are short answer type questions of 2 marks each .
5.Q7 long answer type questions of 3 marks each.
6. Q8. Is long type question of 5 marks
7.Q9 is case based question of 4 marks.

1/2	Tick the incorrect statement from the following: (a) Gold and silver show metallic luster. (b) Solids have a definite shape. **(c) Liquids have a definite shape and volume.** (d) Gases do not have a definite shape and volume.	1
2/1	Reason for the formation of the droplets of water on the outer surface of the ice-cold water glass is (a) water seeped out from the glass (b) evaporation of atmospheric water vapour **(c) condensation of atmospheric water vapour** (d) evaporation of water from the glass	1
3	SET A1 Identify the separation technique used in the given diagram **(a)Winnowing:** (b)Threshing (c)Handpicking (d)Sieving SET A2 Identify the separation technique used in the given diagram (a)Filtration (b)Threshing (c)Handpicking	1

	(d)Sieving	
4	Assertion/Reason Assertion (A): Moving air is called wind. Reason (R): A windmill farm is an area with a huge number of windmills that use the energy of the wind to generate electricity.. **Ans: Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.**	1
5	Why is it more difficult to drink hot tea in a steel cup than in a glass cup? **Ans: Because steel is a good conductor of heat whereas glass is a bad conductor of heat**	2
6	Observe the phenomena that are shown in the figure.  Write all the terms related to 'A', 'B', 'C', and 'D' marked in the figure. A = _____ B = _____ C = _____ D = _____ **ANS-A-EVAPORATION** **B-TRANSPIRATION** **C-CLOUDS** **D-CONDENSATION** **OR** What is the scientific principle behind the use of earthen pots made of sand and clay during the summers? (as shown in following figure) 	2

	ANS-When water evaporates from these surfaces, the molecules leaving the pot take along heat from the pot's walls and the water in the pot becomes cooler.(EVAPORATION CAUSES COOLING)	
7	Distinguish between Transparent, translucent and opaque objects in a tabular form. (2 points- 1 main point, 1 e.g.) Ans: **Transparent** | **Translucent** | **Opaque** **Substances through which we can see clearly** | **Substances through which we can see partially** | **Substances through which we cannot see at all.** **E.g glass, water, air** | **Smoked glass, butter paper** | **Cardboard, Leather** **OR** (i) Who am I? Identify me on the basis of the given properties. (a) I have lustre. _____ (b) I can be easily compressed. _____ (c) I am hard and soluble in water. _____ (d) You cannot see clearly through me. _____ **ANS-** (i) Identification on the basis of properties: (a) I have a lustre. **Metal** (b) I can be easily compressed. **Gas** (c) I am hard and soluble in water. **Salt** (d) You cannot see clearly through me. **Translucent objects** (ii) Name any two properties which can be shown by all materials? ANS- Properties like mass and volume is shown by all materials.	3
8	(a)How will you separate the mixture of oil and water? Explain the steps involved.Draw the diagram also Answer: A mixture of oil and water can be separated by decantation by following steps: Step I: First of all, the mixture is allowed to stand still for some time. Step II: The layer of oil will float on the surface of the water. Step III: The top layer of liquid is poured into another container by the process of decantation..  OR  (b)Identify and define the separation technique shown in the figure below:	3 2 3

	 ANS-SIEVING- Sieving is a separation method based on particle size differences. The sieve retains larger particles. Sieving is the process of using a sieve to separate materials of various sizes of materials. **OR** (a)How is common salt obtained from sea water? Draw the diagram. Answer: When seawater is allowed to evaporate in shallow pits, water gets heated by sunlight and changes into water vapour by the process of evaporation leaving behind impure solid salts. Now, the lumps of impure common salt are crushed to get powdered salt. The powdered common salt is dissolved in water to prepare a solution. Now the solution of common salt is filtered to remove insoluble impurities. The clear solution is evaporated by heating to remove the water content to obtain a concentrated solution of common salt. The hot and concentrated solution is allowed to cool. On cooling, crystallization takes place and crystals of pure common salt are obtained. Fig-9.8 NCERT (b)How can magnets be useful in separating substances. Explain briefly. **ANS-Magnets are used to separate iron particles/substances from sand or junk etc. It is used to separate magnetic materials from non-magnetic materials. Example in junk yards. (2).**	2
	CBQ	
9	The following questions are case-based. Read the case carefully and answer the questions that follow. On International Yoga Day, we connect with nature's bounty – air, water, forests, and soil. The energy from the Sun nourishes our planet. Rocks and minerals form the Earth's foundation. Natural resources, like air and water, are abundant. Renewable resources, such as solar energy, can be replenished. Non-renewable resources, like fossil fuels, are finite. Forests provide oxygen and sustain life. Soil supports plant growth, while rocks store ancient secrets. Conserving these resources ensures a harmonious future. By embracing nature's gifts, we thrive. Soil, rock, and minerals are the building blocks of our planet. Soil nurtures plant life, while rocks form the earth's foundation. Minerals, found in rocks and soil, are the source of essential metals like iron, copper, and gold. Air pollution is a growing environmental concern that affects human health, wildlife, and the planet as a whole. The release of harmful pollutants into the atmosphere, primarily through human activities like burning fossil fuels and industrial processes, is causing irreversible damage to our ecosystem. They are formed through geological processes, taking thousands of years to create. These natural resources are vital for human existence, supporting ecosystems, and fueling industries. (i) Write two simple steps to reduce air pollution.?	4

	ANS-Any two. (ii) Name two important metals extracted from minerals ANS-Iron,Copper or Gold (iii) Write two disadvantages of using fossil fuels ANS- Causes air pollution , limited, costly (any two)	