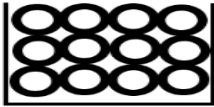


KENDRIYA VIDYALAYA SANGATHAN LUCKNOW REGION SESSION ENDING EXAMINATION (2025-26) ANSWER KEY SET 1		
SUB : SCIENCE		
CLASS: VIII		M.M: 60
S.NO.	SECTION A	MARKS
1.	B Melting process involves a decrease in inter-particle attractions during the transformation.	1
2.	C It settles at the bottom	1
3.	C Convex lens	1
4.	a. Solar calendar is also called the Gregorian calendar.	1
5.	c. Gas > liquid > Solid	1
6.	c. Moon's revolution around the Earth	1
7.	b. Amount of solute dissolved in a solvent at a given temperature	1
8.	b. Hydrosphere	1
9.	c. Salt dissolved in water	1
10.	b. Virtual and erect	1
11.	c Core.	1
12.	c. kg/m ³	1
13.	a. Water	1
14.	c. A is true but R is false.	1
15.	a. Both A and R are true and R is correct explanation of the Assertion.	1
SECTION B		
16.	A. Deforestation Climate change / Rising sea level Human Interference and Land Use Change (or any 2 correct points) OR B. Accumulation of Waste: Dead plants and animals would pile up, as they would not be broken down into simple substances. Nutrient Starvation: The soil would lose its fertility because nutrients from dead matter would not be recycled back to the producers.	1+ 1
17.	- Density = Mass ÷ Volume = $225 \div 90 = 2.5 \text{ g/cm}^3$ - The stone will sink in water as the density of stone is more than the density of water which is 1 g/cm^3.	1+ 1
18.	New Moon → Illuminated portion cannot be seen Crescent Phase → Less than half illuminated Gibbous Phase → More than half illuminated Full Moon → Entire illuminated portion visible	$\frac{1}{2} \times 4$
19.	Carbon dioxide, water → Compound Iron → Element Air → Mixture	$\frac{1}{2} \times 4$

20.	a. Concave mirror b. Concave mirrors are used as shaving or makeup mirrors	1+ 1
21.	A. i. Greenhouse Effect: Trapping of heat in Earth's atmosphere by greenhouse gases. ii. Most abundant gas on Venus: Carbon dioxide. OR B. To establish a human settlement on Mars, the two most critical elements to recreate from Earth are a breathable atmosphere (oxygen-rich air) and liquid water (or any other 2 reasonable points)	1+ 1
SECTION C		
22.	(a) Biotic components: Fish, Plants (b) Interaction: Plants use water and sunlight for photosynthesis (c) Aquatic ecosystem: Lake / River	1 + 1+ 1
23.	A.    Aluminium foil Milk methane gas OR B. Milk is a liquid that flows because its particles are loosely packed and move freely, allowing it to take the shape of the surface. Conversely, the glass tumbler is a solid with tightly packed particles held by strong intermolecular forces, which maintains its fixed shape and volume	1 x 3 OR 3
24.	A. Saturated solution: A solution that cannot dissolve more solute. Solute: Substance that gets dissolved. Density: Mass per unit volume. Uniform mixture: Mixture with same composition throughout. (Any 3 subparts to be answered) OR B. i. Hydrogen gas ii. Iron + Hydrochloric acid ----> Iron Chloride + Hydrogen gas iii. Element – Iron ; Compound – Hydrochloric acid, Iron chloride, Hydrogen gas	1 x 3 OR 1+ 1+ ¼ x 4
25.	Presence of water Presence of oxygen Suitable temperature (or any 3 correct points)	1 x 3
26.	i. Moon phase: First Quarter Moon and correct diagram ii. Nature of phase: Waxing	2+ 1
SECTION D		
27.	a. 40 degrees b. Concave c. True d. Mirror image of N & S e. Converging mirror	1 x 5
28.	a. Gas C – Oxygen, Gas D – Hydrogen b. No, hydrogen is produced in double the amount of oxygen. c. To increase electrical conductivity of water.	1+ 1+ 1+

	d. Hydrogen: Pop test; Oxygen: Glowing splinter test.	2
	SECTION E	
29.	(a) Producer: Plant (b) Role of decomposers: Break down dead plants and animals (c) Example: Grass → Deer → Lion (d) Trophic level of mouse: Secondary consumer	1 x 4
30.	A. (a) Sugar dissolves in water due to spaces between particles. (b) Solute: Sugar; Solvent: Water (c) Homogeneous mixture (d) Particles of matter have space and are in motion OR B. (a) Melting (b) Kinetic energy increases (c) Gases particles have highest energy. (d) Temperature or Pressure	1 x 4