CHEMISTRY TEST ANSWERSHEET CLASS XII (JULY 2023)

Q NO	CHAPTER	HEADING OF QUESTION	CORRECT ANSWER	EXPLAINATION	% OF STUDENTS ATTEMPTED CORRECTLY
01	SOLUTION	Assertion (A): When NaCl is dissolved in water there is elevation of boiling point of solution . Reason (R): Vapour pressure of the solution form increase after addition of NaCl in water.	C	Assertion is True but Reason is false	41.32
02	SOLUTION	A 5% solution of Cane sugar (mol. mass - 342g/ mol.) is isotonic with 1% solution of a substance X, what is the molecular mass of X.	C	68.40	83.20
03	SOLUTION	I If molality of the dilute solution is doubled, the value of molal depression constant (Kf) will be	D	Unchanged	66.68
04	SOLUTION	Assertion: When a solution is separated from the pure solvent by a semi-permeable membrane, the solvent molecules passed through it from pure solvent side to the solution side. Reason: Diffusion of solvent occurs from a region of low concentration solution to a region of high concentration of solution.	B	Assertion and Reason both are True but Reason is not best explanation	28.20
05	SOLUTION	The solution containing 6.8 g of non-ionic solute in 100 g of water was found to freeze at -0.93°C. If Kf for water is 1.86, the mol. mass of solute is	D	136	67.62
06	ELECTROCHEMISTRY	Assertion : Λm for weak electrolytes shows a sharp increase when the electrolytic solution is diluted. Reason : For weak electrolytes degree of dissociation increases with dilution of solution.	A	NO EXPLAINATION	73.00
07	ELECTROCHEMISTRY	The specific conductivity of N/10 KCl solution at 20°C is 0.0212 ohm-1 cm-1 and the resistance of the cell containing this solution at 20°C is 55 ohm. The cell constant is.	B	1.66 CM-1	81.00
08	ELECTROCHEMISTRY	Units of the properties measured are given below. Which of the properties has been not matched correctly ?	C	Specific Conductance = S M2	72.90
09	ELECTROCHEMISTRY	How much time is required to deposit 1 X 10-3 cm thick layer of silver (density of 1.05 g cm-3) on a surface of area 100 cm2 by passing a current of 5 A through AgNO3 solution ?	C	18.7 S	70.90
10	ELECTROCHEMISTRY	Use the data given below find out the strongest reducing agent.	D	Cr 3+	60.40