

Date Planned : __ / __ / __	Daily Tutorial Sheet-1	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced Archive	Exact Duration : _____

1. Water is a liquid, while H_2S is a gas at ordinary temperature. Explain. (1978)
2. A solution of sodium metal in liquid ammonia is strongly reducing due to the presence of : (1979)

(A) sodium atoms	(B) sodium hydride
(C) sodium amide	(D) solvated electrons
3. Anhydrous MgCl_2 is obtained by heating the hydrated salt with _____. (1980)
4. Iodine reacts with hot NaOH solution. The products are NaI and _____. (1980)
5. Calcium is obtained by : (1980)

(A) electrolysis of molten CaCl_2	(B) electrolysis of solution of CaCl_2 in water
(C) reduction of CaCl_2 with carbon	(D) roasting of limestone
6. Sodium carbonate is prepared by Solvay process but the same process is not extended to the manufacture of potassium carbonate, explain. (1981)
7. Heavy water is : (1981)

(A) H_2O^{18}	(B) Water obtained by repeated distillation
(C) D_2O	(D) Water at 4°C
8. $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ on heating gives anhydrous MgCl_2 . Is it true or false ? (1982)
9. The adsorption of hydrogen by palladium is commonly known as _____. (1983)
10. Molecular formula of Glauber's salt is : (1983)

(A) $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	(B) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	(C) $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	(D) $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$
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11. Nitrogen dioxide cannot be obtained by heating : (1985)

(A) KNO_3	(B) $\text{Pb}(\text{NO}_3)_2$	(C) $\text{Cu}(\text{NO}_3)_2$	(D) AgNO_3
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12. Sodium dissolved in liquid ammonia conducts electricity because of _____. (1985)
13. The oxide that gives H_2O_2 on treatment with a dilute acid is : (1985)

(A) PbO_2	(B) Na_2O_2	(C) MnO_2	(D) TiO_2
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14. Give reasons in one or two sentences for the following : (1986)

" H_2O_2 is a better oxidizing agent than H_2O ".
15. Hydrogen gas liberated by the action of aluminium with concentrated solution of _____. (1987)