

VIDYANIKETAN COACHING CLASSES, GHANSAWANGI

Class: - 10th Sub.:- Science -1 Mark's:- 25 Time:- 1:30 Hr

 Q.1) (A) Choose the correct alternative: i)is a chemical change. (A) Ice changing to water (B) Condensation of steam (C) Sublimation of campho ii) When Is passed through fresh lime water, it turns milky. (A) H₂ (B) CO₂ (C) CO (D) SO₂ iii) Rusting of an iron nail is areaction. 	[3] or (D) Ripening of fruits
(A) Combination (B) Displacement (C) Decomposition (D) Double displacement	
 (B) Answer the following: i) State true or false: The conversion of <i>FeO</i> to <i>Fe2O3</i> is reduction reaction. ii) Find odd one out: Melting of Ice, Corrosion of Iron, Photosynthesis in Plants, Conversion of Milk to 	[2] Curd.
 Q.2) Answer the following Question :(Any three) i) Explain the following terms with example. a) Balanced equation b) Combination reaction ii) How can the rate of chemical reaction, namely, decomposition of hydrogen peroperation ii) Mention the factors that affect the rate of a chemical reaction. iv) Distinguish between: Physical change and chemical change. v) Balance the following equation: a) H₂S₂O₇₍₁₎ + H₂O(1) → H₂SO₄₍₁₎ b) Ag(1) + HCL_(aq) → AgCl ↓ + H₂ ↑ 	[6] xide
 Q.3) Answer the following (Any three) i) When the solution of sodium carbonate is added to the solution of calcium chlorid precipitate is formed. a) What is the colour of the precipitate formed? b) Name the precipitate. c) What is the type of the chemical reaction? ii) It takes time for pieces of Shahabad tile to disappear in HCL, but its power disappiii) Explain the term reactant and product giving example. iv) Find whether the following conversion are oxidation or reduction reaction. 	
Conversion Ovidation or Poduction	

	Conversion	Oxidation or Reduction
a.	$Fe^{2+} \rightarrow Fe^{3+}$	
b.	Fe→Fe ²⁺	
c.	Cu ²⁺ →Cu	
d.	$Mn^{4+} \rightarrow Mn^{2+}$	
e.	$Zn \rightarrow Zn^{2+}$	
f.	Ni ²⁺ →Ni	

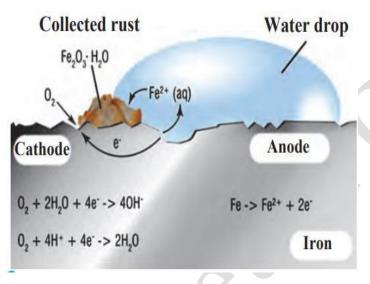
- v) Explain the following chemical reactions and write the balanced chemical equations.
 - a) Zinc granules are added to copper sulphate solution.
 - b) Silver nitrate is added to sodium chloride.
 - c) Electrolysis of acidulated water.

Q.4) Attempt any one.

i) Explain the types of reaction with reference to oxygen and hydrogen. Illustrate with example.

[5]

- ii) Observe the following picture and answer the following questions:
 - a. What is a rust?
 - b. Write the chemical formula of rust.
 - c. Write the reaction of oxidation of iron at anode.
 - d. Write the reaction of oxidation of iron at cathode.
 - e. What is corrosion?



Best of luck.....

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