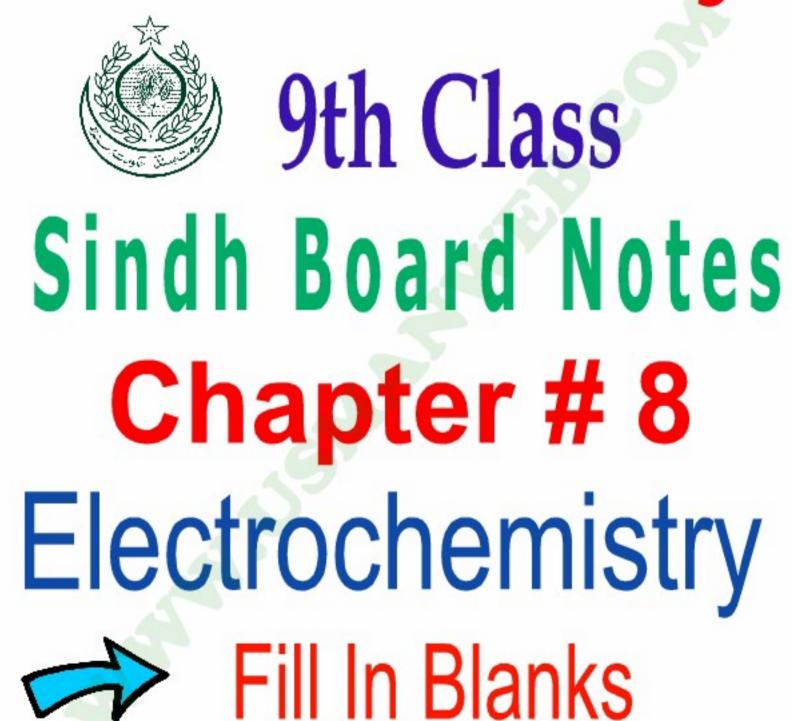
Chemistry



بنجاب، سندھ، بلوچستان، خيبر پختونخواه، بور ڈزکے تمام نوٹس سابقہ بيپرز،ال ويب سائيٹ سے فري ڈاو ملوڈ كريں۔

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Chapter # 08

Chemistry - IX

Fill In The Blanks



→ ELECTROCHEMISTRY

- The substance used for electrolysis is called electrolyte. 1.
- 2. When molten sodium chloride is electrolyzed Na is formed at cathode.
- 3. One Faraday is equivalent to 96,500 coulombs.
- The electrolyte in lead storage battery is H₂SO₄. 4.
- 5. Dry cell is a **primary** cell.
- The branch of chemistry that deals with the inter conversion of electrical energy and 6. chemical energy is called electrochemistry.
- 7. The Chemical compounds which conduct electricity in molten condition or through its aqueous solution are called an electrolytes.
- 8. All acids, bases and salts are electrolytes in aqueous solutions or fused states.
- 9. All electrolytes are ionic compounds or polar compounds.
- 10. The chemical compounds which do not conduct electricity in molten or in aqueous solutions are called non electrolytes.
- 11. Electrolysis is a process in which movements of the ions take place towards their respective electrodes to undergo chemical changes under the influence of an applied electric field.
- 12. Sodium Chloride melts at 800°C.
- Na^{*} ions move towards <u>cathode</u> and gain electrons to get neutralized 13.
- 14. Cl' ions move towards the anode and lose their extra electrons forming neutral chlorine gas.
- During the electrolysis of molten sodium chloride sodium metal at cathode and Cl2 gas at 15. anode is liberated.

- Water in the presence of few drops of acid ionizes into <u>hydronium</u> <u>ions</u> (H₃O⁺) and hydroxide ion (OH⁻).
- During hydrolysis of water H₃O⁺ ions move towards <u>cathode</u>.
- During hydrolysis of water OH ions move towards <u>anode</u>.
- 19. Hydrogen gas is liberated at cathode in the electrolysis of water.
- 20. Oxygen gas is liberated at anode in the electrolysis of water.
- Humphrey Davy was the first who did the electrolysis of water and confirmed that the formula of water is H₂O.
- 22. Faraday's first law of electrolysis states that the <u>amount</u> of any substance deposited or liberated at an electrode during electrolysis is directly proportional to the quantity of <u>current</u> passed through the electrolyte.
- The weight of the substance deposited or liberated, when one coulomb of electric charge
 is passed through an electrolyte is called <u>electrochemical</u> equivalent.
- 24. According to Faraday's second law of electrolysis, the <u>masses</u> of different substances deposited or liberated, when same quantity of current is passed through different electrolytes connected in <u>series</u> are proportional to their <u>chemical equivalent</u> masses.
- One Faraday is defined as the quantity of <u>charge</u> which deposits or liberates exactly <u>one</u> gram equivalent of a substance.
- 26. IF = 96500 coulombs.
- 27. Ampere is the unit of current.
- 28. Coulomb is the unit of electric charge.
- The current when passed through a circuit for one second, can liberate 0.001118g or 1.118x10⁻⁶ Kg of Ag from silver nitrate is called <u>ampere</u>.
- The quantity of charge when one ampere of current is passed for one second is called coulomb.
- The process of <u>electrolysis</u> is used in the extraction, purification and electroplating of metals.

- Electroplating is the process of electrolysis which is used to coat one metal onto the another.
- The cell which is used to convert chemical energy into electrical energy or vice versa is call electrochemical cell.
- An electrochemical cell which converts chemical energy into electrical energy is known as Galvanic or Voltaic cell.
- Daniell cell is the simplest of galvanic or voltaic cells.
- The voltage of <u>Daniell</u> cell is 1.10 volt.
- A battery is an assembly of two or more <u>voltaic</u> cells connected together in <u>series</u>.
- 38. Dry cell is a primary cell.
- Dry cell is an <u>irreversible</u> cell.
- 40. The cell is called a **dry** cell because there is no free flowing liquid.
- 41. Lead storage battery is a secondary cell.
- 42. Lead storage battery is a reversible cell.
- 43 In lead storage battery several anodes and several cathodes are connected together in series.
- In lead storage battery anodes are the <u>lead alloy</u> and cathodes are made up of <u>red lead</u> <u>dioxide</u>.
- 45. In lead storage battery 30% dilute solution of sulphuric acid is used as an electrolyte.
- 46. In lead storage battery Cell reaction consists of repeated cycles of <u>discharging</u> and <u>recharging</u>.

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