

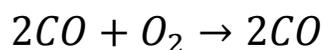
# ***HOMWORK FOR CLASS O III***

## ***SUBJECT: CHEMISTRY***

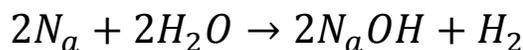
**NOTE:** Answer all questions in your note book. Also learn these answers by heart.

- Solve *test yourself* of chapter 22 and chapter 23
- Solve exercise questions of chapter 22 and chapter 23
- What are polymers? Give examples.
- Give the names of some natural and synthetic polymers.
- What is addition polymerization?
- How polythene is formed? Give equation.
- What is repeating unit of polythene?
- Deduce structural formula of the monomer of polyvinyl acetate (PVA).
- Draw the structure of Perspex, polystyrene, Teflon and polyvinyl chloride.
- What are uses of Teflon and Perspex?
- What is condensation polymerization?
- How Nylon is produced from its monomers?
- What is Terylene? How it is produced from its monomers?
- What are the uses of Terylene and Nylon?
- What is meant by the term *NON- BIODEGRADABLE*?

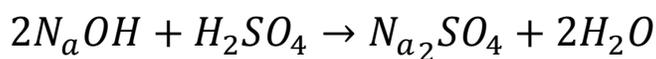
- What are the pollution problems caused by the disposal of plastics?
- How can we properly dispose of plastics?
- Solve *test yourself* of chapter 24.
- Solve multiple choice and structural questions of exercise of chapter 24.
- Describe the tests for ammonium, iron(II), iron(III), copper, calcium and chromium.
- Describe the tests for nitrate, chloride, sulphate, carbonate and iodide.
- Describe the tests for hydrogen, oxygen, chlorine, sulphur dioxide and water.
- Calculate the number of moles in 500 cm<sup>3</sup> of 0.05 mol/dm<sup>3</sup> NaOH.
- Calculate the mass contained in 250 cm<sup>3</sup> of carbon dioxide.
- Calculate the volume of hydrogen produced when 10 gram of zinc reacts with excess sulphuric acid.
- Calculate the volume of carbon dioxide produced when 20 cm<sup>3</sup> of carbon monoxide reacts with 40 cm<sup>3</sup> of oxygen.



- Calculate the volume of hydrogen produced when 46 gram of sodium and 54 gram of water react with each other.



- Calculate the volume of 0.002M NaOH required to completely neutralize 100 cm<sup>3</sup> of 0.004M H<sub>2</sub>SO<sub>4</sub>.



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