

Lukhdhirji Engineering College, Morbi

Mechanical Engineering Department

Sem.: 5th

Subject: Mfg. Technology

Subject Code: 3151912

Assignment 1: Introduction to Manufacturing Process

1. Define manufacturing process and enlist various manufacturing processes.
2. Briefly explain the following processes.
 - a. Casting process
 - b. Forming process
 - c. Fabrication process
 - d. Material removal process
3. Give a brief note on break even analysis.
4. What is a role of break –even analysis in manufacturing industries?
5. Explain the following terms:
 - a. Fixed cost
 - b. Variable cost
6. The fixed costs for the financial year 2007-08 are Rs.50000. The sales for this period are of Rs.200000. The variable cost per unit is Rs.3.5, selling price of each product is Rs.13 and the number of units involved coincides with the expected volume of output.
Construct the break even chart and determine:
 - (a) Break even point
 - (b) How many minimum products should be sold to earn profit?
 - (c) Profit earned at a turnover of Rs.90000
 - (d) Margin of safety
 - (e) Angle of incidence.

1

Vision of the Department:

To deliver quality engineering education for Mechanical Engineers with Professional competency, Human values and Acceptability in the society.

Mission of the Department:

- To nurture engineers with basic and advance mechanical engineering concepts
- To impart Techno-Managerial skill in students to meet global engineering challenges

To create ethical engineers who can contribute for sustainable development of society