Code No: C3306



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD **M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012** PRODUCT DATA MANAGEMENT (ADVANCED MANUFACTURING SYSTEMS) Max.Marks:60

Time: 3hours

Answer any five questions All questions carry equal marks - - -

- 1.a) What are the various factors to be considered in the design and development of a product which can have good demand?
- What are the methods to be adopted in understanding, promoting and involving b) customer to develop a product?
- 2.a) Explain with a flow chart the integration of customer, designer, material supplier and methods engineer in the development of a product.
- What are the qualities to be possessed by process planner in the development of a b) product?
- 3.a) Describe about structured approaches and searches made in obtaining proper solution for process planning.
 - What are the steps to be taken in simplification and standardisation of component b) for a particular purpose?
- 4.a) What is the need of changes in the product and explain its implications on production and quality?
- How to integrate design, drafting, process planning for the effective production of b) components?
- 5.a) Describe fundamental and incidental interactions in the efficient design of a product.
 - b) Describe the integration of design, process planning and managing costs of a production process.
- 6.a) Describe about the importance of technology driven products and user driven products.
 - How the quality of the industrial design be assessed and maintained? b)
- 7.a) What are the various elements be considered in the estimation of manufacturing cost and indicate the methods to reduce it.
 - b) What is the need of prototype components and explain the modifications to be made for easy manufacture and reduced cost.
- 8. Answer the following
 - a) Accelerating the project execution.
 - b) Minimizing system complexity
 - c) Customer and competitor.