

R09

Code No: C3306

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Supplementary Examinations September 2010

PRODUCT DATA MANAGEMENT

(ADVANCED MANUFACTURING SYSTEMS)

Time: 3hours

Max.Marks:60

Answer any five questions

All questions carry equal marks

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1. a) How do you integrate the customer, designer, material supplier, and process planner in product development?
b) How do you establish the product specification? Explain. [12]
2. a) Write a note on process management and improvement.
b) Discuss the methodology of concept selection in product development. [12]
3. a) What are the structured approaches in concept generation and selection? Explain.
b) Discuss the product architecture implications. [12]
4. a) Distinguish between the fundamental and incidental interactions in geometric layout development.
b) What is robust design? Explain. [12]
5. a) How do you simulate the product performance and manufacturing processes electronically? Explain.
b) How do you assess the quality of industrial design? [12]
6. a) Discuss the methods used to minimize the system complexity.
b) What are user-driven products? How are they different from technology-driven products? [12]
7. a) What are the principles of prototyping? Explain.
b) Discuss the methods to accelerate the execution of a project. [12]
8. Write short notes on:
a) Customer behaviour analysis.
b) Standardization of product performance.
c) Baseline project planning. [12]
