

M.Tech-CAD/CAM Sem I (Old Format)
903 - Product Design & Development

P. Pages : 1

Time : Three Hours



GUG/W/16/3813

Max. Marks : 70

- Notes :
1. All questions carry equal marks.
 2. ANswer **any five** questions
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What is 'Quality Deployment Function'? Explain it's importance. 7
b) Explain in brief the concept of 'Robust design.' 7
2. a) Explain 'Design for manufacturing' and its basic considerations. 7
b) Explain 'Design for Assembly' with suitable example. 7
3. a) Illustrate the process of 'Material Selection' for product Design and Development' 7
b) What is 'Rapid prototyping? Explain it's need in PDD. 7
4. a) Describe in brief about 'Assembly modeling and Explain it's importance to a product Designer and developer. 7
b) Draw the flow chart and explain the various. in product development with suitable example. 7
5. a) Explain various types of Design. 7
b) Write a notes on 'Investment Analysis' 7
6. a) What is concurrent engineering? State its importance. 7
b) Explain the concept of 'DFX' 7
7. a) What is 'Expert System' in Product Design and Development. 7
b) Explain Product Rife cycle Management' 7
8. a) Write Notes on 'stereolithographic' 7
b) Explain 'Top-Down and bottom up approach' in Assembly modelling. 7

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