

P. Pages : 1

Time : Three Hours



GUG/W/18/1871

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 the role and need of computer Database in PDD. 7
b) Explain 'Quality Function Deployment'. 7
2. a) What is 'Assembly modelling'? How does it help a designer and developer? 7
b) What is 'Rapid prototyping'. Explain the utility of RP in PDD. 7
3. a) Explain the contribution of expert system in PDD. 7
b) Explain with an example 'Design for Assembly'. 7
4. a) What are the different phases in 'Product development'? Explain flow chart and example. 7
b) State and explain in brief the types of Design. 7
5. Write short notes on **any three**. 14
a) Expert system in PDD. b) Process selection.
c) Concept of DFX. d) Stereolithography.
6. a) What is concurrent Engineering? State its importance. 7
b) Explain importance of prototyping in PDD. 7
7. a) Enlist and explain various factors for Decision analysis. 7
b) "Value Engineering is an essential tool for product development" Explain. 7
8. Write short notes on **any three**. 14
a) Investment Analysis.
b) Generation of Assembly sequences.
c) Product lifecycle management.
d) Time value of money.
