

Time 3 hours

Maximum marks 80

1. Q-1 is compulsory and attempt any four from the remaining questions.
2. All questions carry Twenty (20) marks.
3. Illustrate answers with neat sketches where ever required.
4. Answers to the questions should be grouped and written together.

- Q-1 (A) Discuss Product Ownership, Product Structure and Architecture of PDM. **10**
(B) Explain the term Configurators. Describe the Sustainable Development. **10**
- Q-2 (A) Explain the Pre-PLM industrial environment and e Barriers to PDM implementation. **10**
(B) How the products are identified in the multi-product industries? Discuss the product identification standards and process used in the industries. **10**
- Q-3 (A) Describe the product life cycle reference model. **10**
(B) What are the Typologies of Activity Models? Explain its specific applications in PLM? **10**
- Q-4 (A) Explain steps for cost analysis for a new product life cycle process? Support your answer with suitable considerations and diagrams. **10**
(B) Explain the general Framework of LCCA. **10**
- Q-5 (A) Explain in brief the design for environment concept applied in the modern manufacturing industries. **10**
(B) Describe Useful Life Extension Strategies process. **10**
- Q-6 (A) Explain:- (i) PLM and Service Industry (ii) PLM and E- Business. **10**
(B) Explain Transfer file and Database integration with suitable diagram. **10**
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