

25/11/2024 MECH SEM-VII C SCHEME ILOC - PLCM QP CODE: 10064942

**Duration: 3 Hours**

**Maximum Marks: 80**

**N.B.:-**

1. **Question No 1 is Compulsory**
2. **Solve any three questions from remaining questions**
3. **Assume suitable data if required and mention it clearly**
4. **Figures to right indicate full marks**

- Q1** Solve any four of following
- [A] Explain change management for PLM. **5**
  - [B] Explain concept of reference model **5**
  - [C] Explain reasons for implementing a PDM **5**
  - [D] Explain need for Life Cycle Environmental Strategies. **5**
  - [E] Explain limitations of Life Cycle Assessment **5**
- Q2** [A] Explain various End-of-Life Strategies with suitable examples **10**  
[B] Explain various barriers to PDM implementation **10**
- Q3** [A] Explain various phases of LCA in ISO Standards **10**  
[B] Explain role of Modelling and simulations in Product Design with suitable example. **10**
- Q4** [A] Explain what do you mean by New Product Development (NPD) and explain following concepts: -  
i. Product Configuration  
ii. Variant Management **10**  
[B] With suitable example explain how will you develop PLM Vision and PLM Strategy. **10**
- Q5** [A] With suitable example explain relationship of Concurrent Engineering and Life Cycle Approach **10**  
[B] Explain the concept of Design for Environment with suitable example. **10**
- Q6** Write Short notes on:-  
[A] General Framework for LCCA **10**  
[B] 3D CAD systems and realistic rendering techniques **10**

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