## Paper / Subject Code: 42879 / Product Lifecycle Management ILOC I

1T01437 - B.E.(Mechanical) Engineering)(SEM-VII)(Choice Base Credit Grading System ) ((R- 19-20) (C Scheme) / 42879 -

Product Lifecycle Management ILOC I

QP CODE: 10015816 DATE: 19/12/2022

Time: 3 Hours Max Marks:80

Note: 1. Q1 is compulsory

2. Solve any three from remaining

Q1 Solve any four questions

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- A. Role of science & Technology in Sustainable design of products
- B. Simultaneous engineering
- C. Explain Product design for Environment.
- D. What is PLM? State its need and scope and phases.
- E. What is digital mockup? State its benefits and list software used for it.
- Q.2 A. What do you mean by Design for X. How will you use design for X tools in the design process?
  - B. Explain useful life extension strategies.
- Q.3 A. Explain the general framework of LCCA.

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- B. What is sustainable development? Explain role of science & technology in
- Q.4 A. Discuss new product development process

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- B. Explain cost analysis and life cycle approach in detail.
- Q.5 A. Explain the strategies for recovery at the end-of-life cycle

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- B. What is the virtual product development process? Write its applications and advantages.
- Q.6 A. Explain the product life cycle in detail with suitable example

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B. Explain various reasons for implementation of PDM system. Explain various barriers for PDM implementation

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L5816 Page 1 of 1