Paper / Subject Code: 42581 / Institute Level Optional Course-I :- Product Life Cycle Management

1T01137 - B.E.(Electronics Engineering)(SEM-VII)(Choice Base Credit Grading System) (R-19-20) (C Scheme) / 4258 Institute Level Optional Course-I :-Product Life Cycle Management 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 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. B. What is sustainable development? Explain role of science & technology in A. Discuss new product development process 20 B. Explain cost analysis and life cycle approach in detail. A. Explain the strategies for recovery at the end-of-life cycle 20 B. What is the virtual product development process? Write its applications and advantages. A. Explain the product life cycle in detail with suitable example 20 B. Explain various reasons for implementation of PDM system. Explain various barriers for PDM implementation