

CBCS SCHEME

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15ME835

Eighth Semester B.E. Degree Examination, Aug./Sept.2020 Product Lifecycle Management

Time: 3 hrs.

Max. Marks: 80

Note: i) For Regular Students: Answer any FIVE full questions irrespective of modules.
ii) For Arrear Students : Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define PLM. Explain the need for PLM. (08 Marks)
b. Explain the phases of PLM. (08 Marks)
- 2 a. What is Product Data Management? List the advantages of PDM. (10 Marks)
b. Discuss on opportunities of PLM. (06 Marks)

Module-2

- 3 a. Explain product design process with flow chart. (08 Marks)
b. Explain strategies for recovery at end of life. (08 Marks)
- 4 a. Write short notes on : (08 Marks)
(i) Recycling (ii) Human factors in product design.
b. What is concurrent engineering? List its advantages and limitations. (08 Marks)

Module-3

- 5 a. What is New Product Development (NPD)? What are the needs and benefits? (08 Marks)
b. Define building decision support system with all components. (08 Marks)
- 6 a. Discuss on implementing new product development. (08 Marks)
b. Explain launching and tracking of new product program. (08 Marks)

Module-4

- 7 a. Define Technological change. Mention methods of technology forecasting. (08 Marks)
b. With an example explain relevance tree technique. (08 Marks)
- 8 a. Write short notes on : (08 Marks)
(i) Morphological methods (ii) Flow diagram.
b. What are methods and tools in the innovation process according to situation? (08 Marks)

Module-5

- 9 a. Define Virtual Product Development. Give classification of VPD. (08 Marks)
b. What are methods of analyzing Virtual Product models (VPD). (08 Marks)
- 10 a. Write short note on Process Planning and Control (PPC). (08 Marks)
b. Define Product Configuration Process. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.