CBCS SCHEME

Eighth Semester B.E. Degree Examination, June/July 2024 Product Life Cycle Management

Time: 3 hrs. Max. Marks:80 Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Define PLM. Explain the need for PLM. (08 Marks) b. Explain the phases of PLM. (08 Marks) OR What is Product Data Management? List the advantages of PDM. 2 (10 Marks) Discuss on opportunities of PLM. (06 Marks) Module-2 With an example, discuss the various steps involved in engineering design. 3 (08 Marks) Discuss the role of concurrent engineering in Product design and development. (08 Marks) OR Write short notes on recycling. (06 Marks) What is design for X and design – centered development model? (10 Marks) **Module-3** Sketch and explain the various activities of new product development. 5 (08 Marks) How do you estimate the market potential of a new product? Explain. (08 Marks) OR What is Decision Support System? How it is helpful in decision making? Explain. (08 Marks) With the aid of a flow chart, explain the process of launching and tracking of a new product. (08 Marks) Module-4 Define Technological change. Mention methods of technology forecasting. (08 Marks) With an example explain relevance tree technique. (08 Marks) OR Write short notes on: i) Morphological methods ii) Flow diagram. (08 Marks) What are methods and tools in the innovation process according to situation? (08 Marks) **Module-5** What is Model building? How do you classify them? Explain. 9 (06 Marks) Explain the following: i) Product structures ii) Digital mock – up. (10 Marks) OR 10 Explain the following: a. Data model Product configuration 3D CAD systems

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(16 Marks)

Variant Management

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