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10ME769

Seventh Semester B.E. Degree Examination, June/July 2018
Product Life Cycle Management

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast any TWO questions from each part.

PART – A

- 1 a. Justify the need of Product Life Cycle Management (PLM) in Modern Industry. (06 Marks)
b. Explain the significance of threads of information woven into PLM fabric. (08 Marks)
c. State the purposes of conducting PLM feasible study. (06 Marks)
- 2 a. Outline atleast four characteristics of PLM, with suitable examples. (08 Marks)
b. Comment on the influence of internal drivers of PLM in an organization. (08 Marks)
c. Brief on the need of PLM validation in ensuring the product quality. (04 Marks)
- 3 a. With reasons justify the need for implementing Product Data Management (PDM) System. (06 Marks)
b. State the benefits of workflow Management. (04 Marks)
c. Explain : i) Check – in Check - out and ii) Meta Data in connection with PDM. (10 Marks)
- 4 a. Highlight the importance of Engineering Vaulting in Product Development Cycle. (05 Marks)
b. Explain the role of Engineering change Management in implementing desired product changes effectively. (06 Marks)
c. State the significance of Design for Environment in collaborative product development. (09 Marks)

PART – B

- 5 a. Briefly explain the tools of communication for collaborative work. (05 Marks)
b. Explain the methods of creating animation for assembly instructions. (05 Marks)
c. How an Acrobat 3D document is created? Explain the different steps involved in it. (10 Marks)
- 6 a. Explain the importance of Parameterization of Design of products. (08 Marks)
b. Discuss the following in connection with optimization of products :
i) Configuration ii) Checks iii) Parameters iv) Design table. (12 Marks)
- 7 a. Elaborate on the Role of following phases in digital manufacturing :
i) Ramp – up Production ii) Manufacturing first one. (10 Marks)
b. Discuss in detail the concept and benefits of Virtual Learning Curve, with examples. (10 Marks)
- 8 a. List and explain the PLM initiatives in supporting corporate objectives. (10 Marks)
b. Explain the process of implementing the PLM strategy, with suitable examples. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Answers written on a separate sheet or on a separate page will be treated as malpractice.