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10ME769

Seventh Semester B.E. Degree Examination, Aug./Sept.2020
Product Life Cycle Management

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. Define Components of PLM and explain phases of PLM. (10 Marks)
b. What are the threads of PLM? Explain in detail. (10 Marks)
- 2 a. Explain the characteristics of PLM. (08 Marks)
b. Explain any four External drivers of PLM. (08 Marks)
c. Explain any two Internal drivers of PLM. (04 Marks)
- 3 a. Explain the components of PDM. (07 Marks)
b. Give reasons for Implementing PDM system. (07 Marks)
c. How to justify the implementation of PDM is profitable. (06 Marks)
- 4 Write short notes on the following :
a. Smart parts.
b. Prototype development.
c. Virtual testing.
d. Engineering change document. (20 Marks)

PART - B

- 5 a. Explain the process of creation of 3D XML and CAD drawing using CAD software. (10 Marks)
b. How an Acrobat 3D document is created? Explain the different steps involved in it. (10 Marks)
- 6 a. Explain the process of parameterization of design in brief. (08 Marks)
b. Explain the following : i) Power copy ii) Formula iii) Rule iv) Check. (12 Marks)
- 7 a. What is digital manufacturing? List and explain the concepts of manufacturing the first component. (10 Marks)
b. Explain the concept of Virtual Learning Curve. (05 Marks)
c. Briefly explain the production planning giving suitable example. (05 Marks)
- 8 a. Discuss the PLM initiative to support corporate objectives. (10 Marks)
b. How PLM strategy is implemented? Mention five success factors for ERP projects. (10 Marks)

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.