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10ME769

Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015

Product Lifecycle Management

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Define PLCM and explain. (04 Marks)
b. Explain PLM lifecycle model with a neat sketch. (08 Marks)
c. Explain different threads of PLCM. (08 Marks)
- 2 a. Explain the different phases of PLCM with a neat sketch. (08 Marks)
b. Explain any four external drivers of PLCM. (08 Marks)
c. Explain any two internal drivers of PLCM. (04 Marks)
- 3 a. Define PDM systems. Explain the importance and reasons for implementing them in organizations. (10 Marks)
b. Explain the following: (i) Check in and check out, (ii) Met data (10 Marks)
- 4 a. What is collaborative product development? Briefly explain. (04 Marks)
b. Briefly explain the following:
i) Start and smart parts
ii) Bill of material and process consistency
iii) Digital Mock-up and prototype development
iv) Design for environment (16 Marks)

PART – B

- 5 a. Explain the process of creation of 3DXML 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) Publication ii) Parameters
iii) Design table iv) Configuration (12 Marks)
- 7 a. What is digital manufacturing? Explain. (04 Marks)
b. Briefly explain the following:
i) Manufacturing the first one ii) The virtual learning curve
iii) Manufacturing the rest iv) Production planning (16 Marks)
- 8 a. What is a PLM strategy? Explain in brief. (04 Marks)
b. Explain impact of strategy with a graph. (08 Marks)
c. How PLM strategy is implemented? Mention five success factors for ERP projects. (08 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.