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10ME769

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019

Product Life Cycle Management

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Define PLM and explain phases of PLM. (10 Marks)
b. Explain different threads of PLM. (10 Marks)
- 2 a. List and explain the characteristics of PLM. (10 Marks)
b. What are elements of PLM? (05 Marks)
c. Explain any four internal drivers of PLM. (05 Marks)
- 3 a. Define PDM system. Explain the importance and reasons for implementing them in organization. (10 Marks)
b. Explain: (i) Check-in (ii) Check-out (iii) Meta data (iv) Work flow. (10 Marks)
- 4 a. Write a short note on the following:
i) Start and smart part
ii) Prototype development
iii) Virtual testing (15 Marks)
b. What is collaborative product development? Briefly explain. (05 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. Briefly explain the following:
i) Publication
ii) Parameters
iii) Formula
iv) Configuration (10 Marks)
b. Explain the process of parameterization of design in brief. (10 Marks)
- 7 a. What is digital manufacturing? Explain the concepts of manufacturing the first component. (10 Marks)
b. Write short note on the following:
i) Virtual learning curve
ii) Production planning (10 Marks)
- 8 a. What is PLM strategy? What are the PLM implementation strategies? (10 Marks)
b. Explain:
i) Impact of strategy
ii) Assessment of current system. (10 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.