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Seventh Semester B.E. Degree Examination, Dec.2019/Jan.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. What is PLM? Explain PLM model with neat sketch. (08 Marks)
b. List out the benefits and opportunities of PLM. (04 Marks)
c. Explain the different threads used in PLM with examples. (08 Marks)
- 2 a. Explain the following : (06 Marks)
(i) PLM views (ii) PLM feasibility study (iii) PLM visioning.
b. Explain any four characteristics of PLM. (08 Marks)
c. Explain any three external drivers of PLM. (06 Marks)
- 3 a. Explain the reasons for implementing PDM system. (08 Marks)
b. Explain the following : (12 Marks)
(i) Meta data (ii) Work flow (iii) Life Cycle.
- 4 a. Explain briefly the support of Engineering Change Management and Bill of Materials in product development. (08 Marks)
b. Explain the following : (12 Marks)
(i) Product Reuse (ii) Prototype development (iii) Smart Parts
(iv) Check In and Check Out

PART - B

- 5 a. Discuss the process of creating 3DXML model using CAD drawing tools. (10 Marks)
b. What is acrobat 3D document? Explain the steps involved in creation of acrobat 3D document. (10 Marks)
- 6 a. How the parameterization process involved in product design? Explain in brief. (08 Marks)
b. What is the need of Publication, Parameters, formula, rule, check and configuration in the design of products? (12 Marks)
- 7 a. What is Digital Manufacturing Process? Explain the process with neat sketch. (06 Marks)
b. List out the benefits of Digital manufacturing. (04 Marks)
c. Explain the sub components of Manufacturing the First-One and Manufacturing the rest. (10 Marks)
- 8 a. Explain the implementing strategies of PLM with examples. (10 Marks)
b. Explain the following : (10 Marks)
(i) Impact of Strategy with graph
(ii) Steps in Infrastructure assessment.

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.