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10ME769

**Seventh Semester B.E. Degree Examination, Feb./Mar. 2022**  
**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. Discuss in detail, components of PLM. (10 Marks)  
b. With the help of neat sketch, explain in detail different phases of PLM. (10 Marks)
- 2 a. Explain in detail, characteristics of PLM. (10 Marks)  
b. Discuss in detail, External Driving Environment of PLM. (10 Marks)
- 3 a. Define product Data Management. Briefly explain the reasons of implementing a PDM system. (10 Marks)  
b. Define the following terms : (10 Marks)  
i) Versioning ii) Check-in iii) Check-out iv) Views v) Work-flow.
- 4 a. Write short notes on the following : (10 Marks)  
i) Engineering vaulting ii) Engineering change management.  
b. Discuss in detail, Design for the Environment (DFE) (10 Marks)

**PART – B**

- 5 a. Briefly explain 3D via composer. State the benefit and applications of 3D via composer. (10 Marks)  
b. Discuss in detail, creation of an Acrobat 3D document. (10 Marks)
- 6 a. Explain how to optimize the product and parameterization of product design. (10 Marks)  
b. State the uses of publication, parameter, formula, rule, check in design of product. (10 Marks)
- 7 a. Define Digital Manufacturing. State the benefit of digital manufacturing. (10 Marks)  
b. Explain the following : (10 Marks)  
i) Virtual Learning Curve  
ii) Manufacturing the First One
- 8 a. Explain success factor for ERP as a part PLM implementation strategies. (10 Marks)  
b. Write short notes : (10 Marks)  
i) Impact of strategy  
ii) Infrastructure Assessment.

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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.