

USN

--	--	--	--	--	--	--	--	--	--

10ME769

Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016

**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. (10 Marks)  
b. List out the drivers of PLM and explain. (10 Marks)
- 3 a. Explain Product Data Management (PDM) system and reason for implementing PDM in a organisation. (10 Marks)  
b. Explain : i) Versioning ii) Check - in iii) Check - out  
iv) Views v) Work flow. (10 Marks)
- 4 a. How collaborative product development can be achieved effectively using product reuse? Explain with example. (10 Marks)  
b. What is the use of digital mock-up and prototype development in product development. (10 Marks)

PART - B

- 5 a. Steps involved in creation of 3DXML using CAD drawing and explain. (10 Marks)  
b. How to create an animation for assembly instruction using a composer? (10 Marks)
- 6 a. How to optimize the product and parameterization of product design? (10 Marks)  
b. What are the uses of publication, parameters, formula, rule, check in design of product? (10 Marks)
- 7 a. What is digital manufacturing and benefit of digital manufacturing? (10 Marks)  
b. Explain : i) Virtual learning curve ii) Manufacturing the rest iii) Manufacturing the first one. (10 Marks)
- 8 a. What are the PLM implementation strategies? (10 Marks)  
b. Explain : i) Impact of strategy ii) Infrastructure assessment. (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.