



10ME769

Seventh Semester B.E. Degree Examination, June/July 2019
Product Lifecycle 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. Explain the phases in PLM life cycle model with neat sketch. (10 Marks)
b. List various threads of PLM and explain their importance. (10 Marks)
- 2 a. List and explain the external drivers. (10 Marks)
b. Explain the conceptualization. (10 Marks)
- 3 a. Explain PDM system and its importance. (10 Marks)
b. Explain the following : (10 Marks)
 - i) Versioning
 - ii) Check in and Check – out.
- 4 a. What is collaborative product Development? (08 Marks)
b. Explain the following : (12 Marks)
 - i) Start and Smart part
 - ii) Collaboration room
 - iii) Digital Mock – up and prototype development.

PART - B

- 5 a. Explain the creation of an animation for assembly instruction on 3D Vai composer. (10 Marks)
b. What are the benefits of 3D XML? (05 Marks)
c. Explain change management. (05 Marks)
- 6 a. Explain the following : (08 Marks)
 - i) Parameters
 - ii) Design table.
b. What do you mean by virtual testing and validation? Explain with suitable example. (12 Marks)
- 7 a. What are the benefits of Digital manufacturing? (05 Marks)
b. Explain the manufacturing first one. (10 Marks)
c. Explain the virtual learning curve. (05 Marks)
- 8 a. Explain Infrastructure Assessment. (05 Marks)
b. What are importances of PLM strategy? (05 Marks)
c. List the steps to develop and implement a PLM strategy. Explain any two. (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.