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Seventh Semester B.E. Degree Examination, June/July 2014
Product Life Cycle Management

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
atleast TWO question from each part.**

PART – A

- 1 a. Define PLM explain product life cycle model. (06 Marks)
b. Give the need of PLM for today's world. (04 Marks)
c. What are opportunities and benefits of PLM? (05 Marks)
d. What are the components and phases of PLM? (05 Marks)
- 2 a. Explain characteristics of PLM. (07 Marks)
b. Explain the environment driving PLM. (07 Marks)
c. What are elements of PLM? (06 Marks)
- 3 a. PDM is an essential enabler for PLM, justify. (07 Marks)
b. Give reasons for implementing a PDM system. (07 Marks)
c. How to justify the implementation of PDM is profitable. (06 Marks)
- 4 a. Define collaborative product development and explain its elements. (06 Marks)
b. Brief on engineering vouting and product reuse. (06 Marks)
c. How to achieve engineering change management. (04 Marks)
d. Brief on what is design for environment. (04 Marks)

PART – B

- 5 a. Explain the elements of a typical CAD process on a CAD/CAM system. (07 Marks)
b. Explain with flow chart implementation of typical CAM process on a CAD system. (07 Marks)
c. Brief on how to create 3 D × m CAD drawing using CAD software. (06 Marks)
- 6 a. What are the need for the optimization of design products. (10 Marks)
b. Brief of problems and solution of optimization of product. (10 Marks)
- 7 a. Define digital manufacturing and explain. (06 Marks)
b. Give the benefits of digital manufacturing. (04 Marks)
c. Brief on manufacturing the first one and Ramp up. (05 Marks)
d. Explain product planning in digital manufacturing. (05 Marks)
- 8 Define PLM strategy and explain :
a. What are elements of PLM strategy? (07 Marks)
b. Explain developing a PLM strategy. (07 Marks)
c. Explain the steps assessment for the manufacturing current systems. (06 Marks)

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