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10ME769

Seventh Semester B.E. Degree Examination, June/July 2015
Product Lifecycle 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 PLM. Explain the PLM life cycle model. (06 Marks)
b. Explain the threads of PLM. (06 Marks)
c. List and explain the drivers for change. (08 Marks)
- 2 a. List and explain the characteristics of PLM. (10 Marks)
b. Explain the information mirroring model taking any suitable example. (10 Marks)
- 3 a. Explain the external and internal factors driving PLM. (12 Marks)
b. Explain the five phases of product lifecycle. (08 Marks)
- 4 a. Explain in detail the elements of PLM. (08 Marks)
b. What do you mean by collaborative product development? Explain. (07 Marks)
c. List and briefly explain the environment in which PLM operates. (05 Marks)

PART - B

- 5 a. Explain Engineering Change Management. (07 Marks)
b. What do you mean by digital manufacturing? Explain. (08 Marks)
c. Explain virtual learning curve. (05 Marks)
- 6 a. How do you execute the end of life recycling and disposal of a product taking PLM into account? (10 Marks)
b. What do you mean by virtual testing and validation? Explain taking any suitable example. (10 Marks)
- 7 a. What you mean by PLM strategy? Explain the process of strategy formulation in PLM. (10 Marks)
b. Explain the functionality of PDM systems. (06 Marks)
c. List the advantages of PDM systems. (04 Marks)
- 8 Write short notes on the following :
 - a. Capability Maturity model.
 - b. Ergonomics.
 - c. Design for environment.
 - d. Version Management.
 - e. Organization's readiness for PLM implementation. (20 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.