USN ☐☐☐☐☐☐☐☐☐☐ **10MR832**

Eighth Semester B.E. Degree Examination, June/July 2019

Product Life Cycle Management

Time: 3 hrs. Max. Marks:100

Note: *Answer FIVE full questions, selecting*
at least TWO questions from each part.

PART – A

1 a. Define PLM. How the various thought leaders have defined PLM? (05 Marks)
 b. Detail the opportunities and benefits of PLM. (06 Marks)
 c. Explain the following drivers for change,
   i) New customer requirements
   ii) Regulation and Deregulation. (09 Marks)

2 a. Explain the components of PLM. (10 Marks)
 b. Explain in detail the product workflow. (10 Marks)

3 a. Define PDM. Explain the basic functionalities of PDM system. (10 Marks)
 b. Explain the following :
   i) Client – server system
   ii) PDM Database. (10 Marks)

4 Explain the following.
   i) Engineering vaulting
   ii) Product Reuse
   iii) Bill of materials
   iv) Marketing collaterals. (20 Marks)

PART – B

5 a. Explain in detail the sources of the pre PLM problems. (10 Marks)
 b. Explain the various factors that affect the products progress. (10 Marks)

6 a. List and explain the problem faced by PLM projects. (10 Marks)
 b. What do you mean by digital manufacturing? Explain. (10 Marks)

7 a. Explain the 5 success factors for ERP projects. (10 Marks)
 b. Explain the following :
   i) Metadata   ii) Virtual learning curve. (10 Marks)

8 Write short notes on the following.
   a) PLM initiatives
   b) Best practices
   c) PLM strategy
   d) Assessment of PLM readyness. (20 Marks)

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