USN | | | | | | | | | | 10ME769

Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
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 PLCM and explain. (04 Marks)
   b. Explain any five benefits of PLM. (10 Marks)
   c. With a neat sketch, explain the stages of PLM. (06 Marks)

2 a. Explain any five characteristics of PLM. (10 Marks)
   b. Explain the following drivers of PLM with example: i) Scale; ii) Complexity; iii) Productivity; iv) Quality. (10 Marks)

3 a. Explain financial justification of PDM implementation. (08 Marks)
   b. Explain the following: i) Versioning; ii) Lifecycle; iii) Workflow. (12 Marks)

4 a. What is collaborative product development? Briefly explain. (05 Marks)
   b. Explain the following:
      i)   Product reuse
      ii) Engineering change management
      iii) Marketing collateral. (15 Marks)

PART – B

5 a. Explain the process of creation of 3D XML and CAD drawing using CAD software. (10 Marks)
   b. How an acrobat 3D document is created? Explain the different steps involved in it. (10 Marks)

6 a. Explain the process of parameterization of design in brief. (08 Marks)
   b. Explain the following: i) Power copy; ii) Formula; iii) Rule; iv) Check. (12 Marks)

7 a. What is digital manufacturing? Explain. (10 Marks)
   b. Briefly explain the following:
      i)   Manufacturing the first one.
      ii) The virtual learning curve.
      iii) Manufacturing the rest.
      iv) Production planning. (10 Marks)

8 a. What is a PLM strategy? Explain in brief. (04 Marks)
   b. Explain impact of strategy with a graph. (08 Marks)
   c. How PLM strategy is implemented? Mention five success factors for ERP projects. (08 Marks)

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