Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018
Product Life Cycle 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 Product Life Cycle Management and explain briefly the "Life Cycle Model" of PLM. **(08 Marks)**
    b. List and explain the threads of PLM. **(12 Marks)**

2   a. Explain any three characteristics of PLM. **(12 Marks)**
    b. Explain briefly the following internal drivers of PLM :
      i) Productivity   ii) Innovation   iii) Collaboration   iv) Quality. **(08 Marks)**

3   a. Explain clearly the chick in and check out concepts. **(08 Marks)**
    b. Explain briefly the following :
      i) Work flow   ii) PDM system   iii) Meta data. **(12 Marks)**

4   a. Explain PLM maturity model in detail. **(10 Marks)**
    b. Explain briefly any two of following :
      i) Collaborative product development management [cPDm].
      ii) Product reuse.
      iii) Engineering vaulting. **(10 Marks)**

PART – B

5   a. Explain the tools of communication for collaborative work. **(10 Marks)**
    b. Explain the procedure of creation of animations in assembly instructions on 3D. **(10 Marks)**

6   a. What is Knowledge Management? Explain Parameterization of design. **(10 Marks)**
    b. Explain any two of the following :
      i) Publication   ii) Formula   iii) Reaction. **(10 Marks)**

7   a. Define Digital Manufacturing and list any eight benefits. **(10 Marks)**
    b. Write a short note on Virtual learning curve and explain manufacturing the first one. **(10 Marks)**

8   a. What is Strategy? Explain the impact of strategy on PLM. **(10 Marks)**
    b. How to assess the current systems of PLM? Mention any four applications. **(10 Marks)**

* * * * *