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

Seventh Semester B.E. Degree Examination, April 2018
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. Describe PLM model with sketch.   (10 Marks)
    b. List the threads of PLM. Explain in detail any one of them.   (10 Marks)

2   a. State and explain briefly the characteristics of PLM.   (10 Marks)
    b. What Environment drives the PLM? Explain.   (10 Marks)

3   a. Define PDM. Explain the importance and reason for implementing PDM.   (10 Marks)
    b. Explain the following PDM terms :
        i)   Check – in and Check – out information   ii) Metadata
        iii) Workflow and process management.   (10 Marks)

4   a. What is Collaborative product development? Define.   (04 Marks)
    b. Briefly explain the following terms :
        i)   Part numbering   ii) Product reuse
        iii) Start and smart ports   iv) Engineering change management.   (16 Marks)

PART – B

5   a. List and explain in brief the tools used to sketch, which can be converted into 3D drawing in
        CATIA.   (10 Marks)
    b. List any four constraints used in assembly work bench in CATIA and explain them.
                                                                                          (10 Marks)

6   a. What is Parameterization? Explain with any example.   (08 Marks)
    b. List and explain the contents of Parameterization.   (12 Marks)

7   a. What is Digital manufacturing? How does it relate to PLM?   (08 Marks)
    b. List the benefits of Digital manufacturing with percentage improvements.   (12 Marks)

8   a. What is Strategy? Explain the impact of strategy with respect to PLM.   (10 Marks)
    b. Explain PLM initiatives to support corporate objectives.   (10 Marks)

* * * * *