[4759] - 51

B.E. (Mechanical)
PRODUCT LIFE CYCLE MANAGEMENT
(2008 Course) (Open Elective)

Time : 3 Hours]   [Max. Marks : 100
Instructions to the candidates:
1) *Answers to the two sections should be written in separate answer books.*
2) *Answer any three questions from each section.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Figures to the right side indicate full marks.*
5) *Assume suitable data, if necessary.*

SECTION - I

Q1) Explain the concept of Product Life Cycle Management in detail. Discuss the emergence of PLM. **[18]**

OR

Q2) Discuss Corporate challenges in implementing PLM. Elaborate importance of PLM from Product Development Prospective. **[18]**

Q3) a) Discuss Plan, Build, Support & dispose in PLM life cycle model in detail. **[8]**

b) Discuss the concept of Engineering Data Management. **[8]**

OR

Q4) What do you mean by Singularity, Cohesion and Traceability? Explain any two threads of PLM. **[16]**

Q5) Why internal drivers are demanding PLM? Discuss all the internal drivers in detail. **[16]**

OR

Q6) Discuss in detail external drivers demanding implementation of PLM. Elaborate their significance. **[16]**

SECTION - II

Q7) a) Discuss various characteristics of PLM Systems in detail. **[9]**

b) Discuss in brief System Architecture required for PLM System. **[9]**

OR

Q8) a) Explain with suitable example Product information data model. **[9]**

b) State and elaborate various reasons to deploy PLM systems. **[9]**

Q9) a) What is Product data and Product Workflow? Explain the Key management issues involved in. **[8]**

b) Explain the concept of Change management and Configuration management in PLM. **[8]**

OR

Q10) What is PLM strategy? Discuss in detail various facets of PLM strategy such as Strategy Identification and implementation. **[16]**

Q11) Explain in detail the role of Human resources in PLM. **[16]**

OR

Q12) Elaborate phases of product life cycle and corresponding technologies to be implemented. **[16]**

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