P2151

[5254] -547
B.E. (Mechanical)
Product Life Cycle Management
(Open Elective) (2012 Pattern)

Time : 2½ Hours]　　　　　　　　　　　　　　　　　　　*[Max. Marks :70*
Instructions to the candidates:

　　1)　Neat diagrams must be drawn wherever necessary.

　　2)　Figures to the right side indicate full marks.

　　3)　Assume suitable data if necessary.

Q1) Elaborate the role of various External Drivers in PLM implementation.　**[10]**

<p align="center">OR</p>

Q2) Discuss in detail PLM Life Cycle Model with all its phases. Explain significance.
[10]

Q3) a)　Discuss emergence of PLM from Product Data Management.　**[6]**

　　b)　What is Engineering Vault? Discuss in brief.　**[4]**

<p align="center">OR</p>

Q4) a)　Explain the impact of any three Board Room Drivers on PLM.　**[6]**

　　b)　What is Product Reuse in Digital Life Cycle? Explain.　**[4]**

Q5) Elaborate need and requirements of Product Life cycle Management System?
Discuss its working in detail.　**[16]**

<p align="center">OR</p>

Q6) Explain in detail with structure and working product model and product
information data model. Compare the characteristics.　**[16]**

<p align="right">***P.T.O.***</p>

Q7) a) Discuss key management issues in product data and product workflow.**[9]**

b) What is PLM strategy? Explain different principles of PLM strategy formulation. **[9]**

<center>OR</center>

Q8) Discuss in detail various data issues as Access, Applications, Archiving, Availability, Change, Confidentiality in PLM. **[18]**

Q9) Elaborate in detail various phases of product life cycle and corresponding technologies to be applied. **[16]**

<center>OR</center>

Q10) a) What is Change Management in Engineering. Discuss its implementation in PLM. **[8]**

b) Discuss the concept of Collaborative Engineering. How it is different from Concurrent Engineering? Explain. **[8]**

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