

**M. TECH.-III (MECHANICAL CAD/CAM) (CBCS – 2015 COURSE) :**  
**WINTER - 2017**

**SUBJECT : SELF-STUDY PAPER-I – PRODUCT LIFECYCLE MANAGEMENT**

Day : **Thursday**  
Date : **25/01/2018**

**W-2017-2930**

Time : **11.00 AM TO 02.00 PM**  
Max. Marks : 60.

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Both the sections should be written in **SEPARATE** answer books.
  - 4) Draw neat labeled diagrams **WHEREVER** necessary.
  - 5) Assume suitable data, if necessary.
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**SECTION-I**

**Q.1** Explain preparing and developing of PLM strategy. **(10)**

**OR**

Discuss strategy identification and selection of product life cycle environment. **(10)**

**Q.2** Explain Test (quality check), service sell and deliver for product development process. **(10)**

**OR**

Discuss integrated development process and conceive specification of product development process. **(10)**

**Q.3** Explain improving of product development solutions for product development approaches. **(10)**

**OR**

Explain design in context and modular design for product development approaches. **(10)**

**SECTION-II**

**Q.4** Discuss role of process chains and product models for product modeling. **(10)**

**OR**

Explain concept and fundamental issues of product modeling. **(10)**

**Q.5** Explain concept, benefits and terminology for product data management technology. **(10)**

**OR**

Discuss information authoring tools for product data management technology. **(10)**

**Q.6** Explain advanced database design for integrated manufacturing. **(10)**

**OR**

Discuss applications of soft computing in product development process.

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