

**M. Tech.-III (Mechanical CAD/CAM) (CBCS – 2015 Course) :**  
**WINTER - 2018**

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

Day: Saturday  
Date: 08/12/2018

**W-2018-3262**

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) Answers to both the sections should be written in **SEPARATE** answer books.
  - 4) Assume suitable data **WHEREVER** is necessary.
  - 5) Use of non-programmable **CALCULATOR** is allowed.
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**SECTION-I**

**Q.1** Explain product data, product workflow and PLM vision for product life cycle Environment. **(10)**

**OR**

**Q.1** Explain Elements of PLM, Emergence of PLM and significance of PLM for product life cycle Environment. **(10)**

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

**OR**

**Q.2** Discuss concept design and Detailed design for product development process. **(10)**

**Q.3** Explain Bottom design, Top-down design and front loading design for product development approaches. **(10)**

**OR**

**Q.3** Explain work structuring, team deployment, product and process systemization for product development approaches. **(10)**

**SECTION-II**

**Q.4** Explain Types of product models, model standardization efforts for product modeling in detail. **(10)**

**OR**

**Q.4** Explain Industrial demands, foundation technology and spandrels for product modeling. **(10)**

**Q.5** Explain concept, core functions and functional applications for product data management Technology. **(10)**

**OR**

**Q.5** Explain PDM functions, definition and architectures of PDM systems for product data management Technology. **(10)**

**Q.6** Explain applications of soft computing in product development process in detail for recent advances. **(10)**

**OR**

**Q.6** Discuss knowledge based product and process models for recent advantages. **(10)**

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