M. Tech.-IV (Mechanical CAD/CAM)   (CBCS – 2015 Course) :
SUMMER - 2019
SUBJECT: SELF-STUDY PAPER-II INTEGRATED PRODUCT DESIGN AND DEVELOPMENT

Day: Thursday   Time: 11.00 AM TO 02.00 PM

Date: 13/06/2019   **S-2019-3542**   Max. Marks: 60

N.B:
1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Answer to both the sections should be written in **SAME** Answer book.
4) Assume suitable data **WHEREVER** is necessary.
5) Use of non-programmable **CALCULATOR** is allowed.

SECTION-I

Q.1   Explain standardization, simplification and specialization in product design.   **(10)**

OR

Q.1   Explain types of design and redesign for integrated product design and development.   **(10)**

Q.2   Explain product development- Technical and business concerns in detail.   **(10)**

OR

Q.2   Explain customer needs information and analysis of gathered information.   **(10)**

Q.3   Explain product development from concept to product function in detail.   **(10)**

OR

Q.3   Explain functional modeling and decomposition for integrated product design and development.   **(10)**

SECTION-II

Q.4   Explain product development in the context of reverse engineering.   **(10)**

OR

Q.4   Explain Introduction to product portfolio and Architecture.   **(10)**

Q.5   Explain design for manufacture, Assembly and environment for Integrated product design of development.   **(10)**

OR

Q.5   Explain DFX , product testing and product validation for Integrated product design of development.   **(10)**

Q.6   Explain product development methodology in detail.   **(10)**

OR

Q.6   Explain steps in IPD methodology in detail.   **(10)**

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