M. TECH.-IV (MECHANICAL CAD/CAM) (CBCS – 2015 COURSE) : SUMMER - 2018

SUBJECT: SELF STUDY PAPER - II - CONCURRENT ENGINEERING

Day : **Tuesday**	**S-2018-3141**	Time :	**11.00 AM TO 02.00 PM**
Date : **19/06/2018**		Max. Marks : 60	

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 the **SEPARATE** answer books.
4) Draw neat and labeled diagram **WHEREVER** necessary.
5) Use of non programmable calculator is **ALLOWED**.
6) Assume suitable data, if necessary.

SECTION - I

Q. 1 Explain the challenges faced by modern production environment. **(10)**

OR

Explain the objectives and benefits of C. E. **(10)**

Q. 2 Explain structure C. E. team composition and duties. **(10)**

OR

Describe the C. E. implementations process. **(10)**

Q. 3 Explain the house of quality. **(10)**

OR

Describe the compatibility approach and compatibility index. **(10)**

SECTION - II

Q. 4 Explain DFM guidelines and design for assembly. **(10)**

OR

Explain the creative design methods and product family themes. **(10)**

Q. 5 Explain quality engineering and methodology for robust product design. **(10)**

OR

Describe the quality loss function and signal to noise ratio for designing the quality. **(10)**

Q. 6 Describe the cycle serviceability design. **(10)**

OR

Explain the decomposition in concurrent design. **(10)**

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