

MASTER OF TECHNOLOGY (MECHANICAL CAD/CAM) (CBCS - 2015 COURSE)
M. Tech. (Mechanical CAD/CAM) Sem-IV :SUMMER- 2022
SUBJECT : SELF-STUDY PAPER-II:CONCURRENT ENGINEERING

Day : Wednesday
Date : 15-06-2022

S-14585-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
 - 4) Answers to both the sections should be written in **SEPARATE** answer books.
 - 5) Assume suitable data, if necessary.
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SECTION - I

Q. 1 Explain with block diagram sequential engineering process. **(10)**

OR

Explain in detail benefits of concurrent engineering. **(10)**

Q. 2 Explain in detail life cycle design of products. **(10)**

OR

Explain current engineering organizational structure. **(10)**

Q. 3 Explain with neat sketch quality function deployment. **(10)**

OR

Discuss house of quality in quality function deployment. **(10)**

SECTION - II

Q. 4 Explain role of design for manufacture. **(10)**

OR

Discuss Taguchi design methods with examples. **(10)**

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

OR

Discuss the quality loss function and signal to noise ratio. **(10)**

Q. 6 Discuss the design for maintainability. **(10)**

OR

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

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