

M. Tech.-I (Mechanical CAD/CAM) (CBCS – 2015 Course) :

WINTER - 2018

SUBJECT : COMPUTER INTEGRATED MANUFACTURING

Day : Friday
Date : 07/12/2018

W-2018-3122

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

N. B. :

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

Q. 1 What are the various activities of a manufacturing plant which can be carried out through computer control? (10)

OR

Define CIM. Explain types of Networking. Illustrate with example its use in CIM system. (10)

Q. 2 What is concept of collaborative engineering? How this concept will be used in optimizing CIM system? (10)

OR

Explain with suitable examples types of database required in CIM. (10)

Q. 3 What is the Direct Numerical Control? Explain in brief FMS. Justify with example. (10)

OR

What do you understand by group technology? Discuss the use of GT in various functional department of an organization. (10)

SECTION - II

Q. 4 What do you understand by machine vision? Give the significance of machine vision in QC inspection and its working. (10)

OR

Explain the role of integrative manufacturing in CAD/CAM. (10)

Q. 5 Explain with suitable example web based manufacturing application in casting of engine block. (10)

OR

What is cellular manufacturing and what are its prerequisites and its advantages? (10)

Q. 6 Explain the role of control system in CIM. Discuss control system enhances manufacturing precision and productivity. (10)

OR

Define Agile manufacturing. Explain conceptual model Agile manufacturing in detail. (10)

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