

## ME 6703 - COMPUTER INTEGRATED MANUFACTURING

### UNIT – I

#### INTRODUCTION

- |    |  |     |    |
|----|--|-----|----|
| 1  | Mention few elements of CIM.   | M/J | 16 |
| 2  | State the objectives of implementation of CIM.   | M/J | 16 |
| 3  | Mention the reasons for implementing CAD?  | A/M | 15 |
| 4  | Write the various methods for representing the solids in CAD                               | A/M | 15 |
| 5  | Compare surface modelling & solid modelling.   | M/J | 14 |
| 6  | What are the specific characteristics that have to be incorporated in CIM models?          | N/D | 14 |
| 7  | Define computer integrated manufacturing.  | M/J | 14 |
| 8  | Specify the range of applications for which geometric modelling information is used?       | N/D | 13 |
| 9  | What are the drawing features of CAD package?  | M/J | 12 |
| 10 | What is the advantage of solid modelling?  | M/J | 12 |
| 11 | What is the cycle time in manufacturing?   |     |    |
| 12 | What is a bottleneck station?  |     |    |
| 13 | What is production capacity?   |     |    |
| 14 | What is utilization in manufacturing plant?  |     |    |
| 15 | What is availability?  |     |    |
| 16 | What is manufacturing lead time?   |     |    |
| 17 | What is work-In-process inventory?   |     |    |
| 18 | Name five typical factory overhead expenses?   |     |    |
| 19 | Name five typical corporate overhead express?  |     |    |
| 20 | What is the difference between hard product variety and soft product variety?              |     |    |
| 21 | What is the difference between single model production line & mixed model production line? |     |    |
| 22 | What is lean production?   |     |    |
| 23 | In lean production, what is Just-In-Time delivery of parts?                                |     |    |
| 24 | Name seven forms of waste in production?   |     |    |
| 25 | What is objective of Just-In-Time production?  |     |    |
| 26 | What is kanban? What are the two types of kanban?  |     |    |
| 27 | What is the difference between push system & pull system in production control?            |     |    |
| 28 | What does automation mean.   |     |    |

#### PART – B

- |    |  |     |     |    |
|----|--|-----|-----|----|
| 1. | Explain the following terms and bring out their differences between CAM and CIM. | (8) | M/J | 16 |
|    | With an example, discuss the differences between CAM and CIM.                    | (8) | M/J | 16 |
| 2  | What is CAD? Explain the various design related tasks performed                  |     |     |    |

# Computer Integrated Manufacturing Model Question Papers

**John W. Nazemetz, William E.  
Hammer, Randall P. Sadowski**



## **Computer Integrated Manufacturing Model Question Papers:**

Introduction to Mechanical Engineering Sciences Rajesh Kumar R, 2020-08-01 Introduction to Mechanical Engineering Sciences addresses various fields such as Thermodynamics IC Engines Power plant engineering etc **MANUFACTURING** Shivkumar Raghuwanshi, This book is designed to serve as a guide for the aspirants for Mechanical Engineering who are preparing for different exams like State Engineering service Exams GATE ESE IES RSEB AE JE SSC JE RRB JE State AE JE UPPSC AE and PSUs like NTPC NHPC BHEL Coal India etc The unique feature in this book is that the ESE IES Mechanical Engineering Detailed coloured solutions of Previous years papers with extra information which covers every topic and subtopics within topic that are important on exams points of views Each question is explained very clearly with the help of 3D diagrams The previous years from 2010 to 2021 questions decoded in a Question Answer format in this book so that the aspirant can integrate these questions along in their regular preparation If you completely read and understand this book you may succeed in the Mechanical engineering exam This book will be a single tool for aspirants to perform well in the concerned examinations ESE GATE ISRO SSC JE Mechanical Engineering Previous Years Papers Solutions Multi Coloured eBooks You will need not be to buy any standard books and postal study material from any Coaching institute EVERYTHING IS FREE 15 DAYS FOR YOU Download app from google play store <https://bit.ly/3vHWPne> Go to our website <https://saususpicious.in> **Computer Integrated Manufacturing (Iccim '91): Manufacturing Enterprises Of The 21st Century - Proceedings Of The International Conference** B S Lim, 1991-10-02 In the 21st century computer integrated manufacturing CIM systems will not only be the economic development tools but will also be the essential means of achieving a higher level of flexibility cohesiveness and performance CIM systems are beginning to settle into our society and industries with greater emphasis on the integration of economic cultural and social aspects together with design planning factory automation and artificial intelligent systems This volume of proceedings brings together 10 keynote and invited speaker addresses and over 180 papers by practitioners from 28 countries It documents current research and in depth studies on the fundamental aspects of advanced CIM systems and their practical applications The papers fall into 3 main sections CIM Related Issues Industrial AI Applications Aspects and Concurrent Engineering Advanced Design Simulation and Flexible Manufacturing Systems **MECHANICAL ENGINEERING (UPPSC AE)** YCT EXPERT TEAM, UPPSC AE MECHANICAL ENGINEERING PRACTICE WORK BOOK Computer Integrated Manufacturing Systems John W. Nazemetz, William E. Hammer, Randall P. Sadowski, 1985 *Instructor's Manual and Test Bank to Accompany Computer Confluence Business Edition* George Beekman, 1999 **Computer-integrated Manufacturing and Robotics** American Society of Mechanical Engineers. Winter Annual Meeting, 1984 **Resources in education**, 1991 *Advanced Control in Computer Integrated Manufacturing* Henry M. Morris, E. J. Kompass, Theodore Joseph Williams, 1987 **Methods and Tools for Computer Integrated Manufacturing** U. Rembold, R. Dillmann, 1984 1994 IEEE International Conference on Systems, Man, and

Cybernetics IEEE Systems, Man, and Cybernetics Society, 1994      Computer Integrated Manufacturing Steven A. Melnyk, Ram Narasimhan, 1990      **Computer Integrated Manufacturing** Thomas Bernold, Walter Guttropf, 1988 Computer Integrated Manufacturing CIM implies a restructuring of manufacturing industry to form an information centered economy Many small enterprises often work as suppliers to large manufacturers which are in the process of introducing CIM In the short or long term the supplier will be forced to introduce CIM since construction specifications test procedures manufacturing programmes etc will be part of the contract and will be transmitted electronically Only those who can adapt flexibly to change will survive The papers from this conference illustrate the state of the technology and allow for comparison between US and European developments The aim is not to further isolate information technology and communication at the expert level but rather to deepen the understanding of CIM concepts in production enterprises of all types      **CIRP Annals** International Institution for Production Engineering Research, 1993      Robomatix Reporter , 1988      CAD/CAM Abstracts , 1992      **IIE Integrated Systems Conference Proceedings** , 1987      **International Research Centers Directory** , 2009      **Artificial Intelligence Abstracts** , 1991      **The Performance Advantage** American Production and Inventory Control Society. International Conference, 1990

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