

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain group technology in detail.
- Q.4 Explain different CAD/CAM softwares in detail.
- Q.5 Explain the recent advancements in the field of manufacturing.
- Q.6 Explain different hardware components of Microprocessor based CAD/CAM in detail.
- Q.7 Write short note on:
- a) Coding system
 - b) History of CAD/CAM tools.

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Roll No.

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6th Sem. / Mechatronics / CNC

Subject : CAD / CAM & FMS

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define CAM.
 - b) Types of system.
 - c) What are the recent trends in Micro-CAD trends?
 - d) What is the function of software in computer system?
 - e) Name any two CAD hardwares.
 - f) What is part classification?
 - g) Define manufacturing cell.
 - h) What do you mean by generative CAPP system?

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- i) State different type graphics operation?
- j) What are the components of a computer system?
- k) Write two benefits of CAD/CAM.
- l) Define Automatic Guided Vehicles.
- m) Name two different types of modelling.
- n) What is software module?
- o) What is machinability data selection system?
- p) Define FMS.
- q) Integration of CAD and CAM is known as _____.
- r) What is user interface?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) Differentiate between variant and generative system in CAPP.

- ii) Write industrial applications of CAD / CAM.
- iii) What are different CAD / CAM tools?
- iv) Write advantages of Group Technology.
- v) What are the applications of FMS?
- vi) Write a short note on process planning.
- vii) Discuss basic concept of networking.
- viii) Explain applications of Microprocessor based CAD/CAM.
- ix) How can we use CAD/CAM system efficiently?
- x) Discuss various software trends?
- xi) What are different components of FMS.
- xii) Describe several features of CAD/CAM.
- xiii) What are the benefits of CAPP system.
- xiv) Draw a suitable block diagram of a computer system showing all hardware components?
- xv) What are the benefits of CIMS?

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