

#### www.FirstRanker.com

www.FirstRanker.com

II No.	Total No. of Page	s : 02
II No. 📖 🗀	─ Total No. of	Page

Total No. of Questions: 09

# B.Tech.(Automation & Robotics) (2011 & Onwards) (Sem.-6) COMPUTER INTERGRATED DESIGN AND MANUFACTURING

Subject Code : BTAR-604 M.Code : 71067

Time: 3 Hrs. Max. Marks: 60

#### INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

#### SECTION-A

## Answer briefly :

- (i) How is computers helpful in the design process?
- Differentiate between the randon and raster scan type of CRT screens.
- (iii) Write few lines on 'GKS'.
- (iv) What are the differences between a wireframe model and a solid model?
- (v) List the different features of a CNC machine.
- (vi) What does 'flexible tooling' means?
- (vii) What are the advantages of CAPP?
- (viii) In which type of industry is the group technology philosophy most helpful? Give reasons for your answer.
- (ix) Differentiate between CIM and FMS.
- (x) What is the role of 'programmer' in computer assisted part programming?



www.FirstRanker.com

www.FirstRanker.com

www.FirstRanker.com

#### SECTION-B

- Discuss the basic principle and working of 'LCD' type of output device.
- 3. What is a DNC machine? Discuss the different types of DNC machines.
- 4. What is CIMS? What are the different components of CIMS?
- What is a part family? With the help of an example, explain the Opitz system used for part classification and coding in Group Technology.
- Discuss the different factors that influence the design of a material handling system in any industry.

### SECTION-C

- Discuss the following types of solid modelling schemes:
  - (a) B-rep
  - (b) CSG
- What is AGVS? Discuss in brief its different types.
- What is automated storage / retrieval system? Discuss the different basic components that form the part of AS/RS system.

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.

2 M - 71067 (S2) - 662

