Roll No.

24484

B. Tech. 7th Semester (ME)

Examination - December, 2016

COMPUTER INTEGRATED MANUFACTURING

Paper: ME-425-F

Time: Three Hours]

[Maximum Marks : 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions. Question No. 1 is compulsory. Attempt any one question from each Section.

- 1. (a) Explain the different types of Computer Memory.
 - (b) What do you mean by NC word?
 - (c) What do you mean by accuracy and repeatability?
 - (d) What is drive system in a robotics technology?
 - (e) What are the role of Computer in a manufacturing. $5 \times 4 = 20$

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SECTION - A

2.	Explain	the	NC	motion, control	system	with	their
	application, advantage and disadvantage of NC.						20

3. (a) What do you mean by Automation and their types?

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(b) What is CAD, CAM, CPU and Binary System. 10

SECTION - B

4. Explain the following:

 $5 \times 4 = 20$

- (a) APT Language
- (b) Motion Statement
- (c) Post Processor statement
- (d) Auxiliary statement Exposite agreement
- 5. What do you mean by NC part programming language and APT language? 20 plantage 20

SECTION, - C

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 What is robotic technology? Explain with their joint. Links, end effectors, work volume and drive system. Explain the different types of conveyors and material Handling Equipment.

SECTION - D

8. Differentiate between the following:

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- (a) Contact and Non-contact Inspection Method.
- (b) Optical and Non optical Inspection Method
- **9.** Explain the role of computer in CIMS and what are the benefit of computer in CIMS.

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