

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER– 7th EXAMINATION – SUMMER 2015

Subject Code: 172501**Date: 01/05/2015****Subject Name: Computer Aided Manufacturing****Time: 02.30PM-05.00P****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Compare NC, CNC and DNC with neat sketch. **07**
(b) Prepare a part program using basic operations like turning, drilling and interpolation. **07**
- Q.2** (a) Classification of CNC machines. **07**
(b) List down and Explain various types of tape readers with neat sketches. **07**
- OR**
- (b) Explain basic Coding system for CNC machines. **07**
- Q.3** (a) Write a short note on Mechatronics. **07**
(b) Explain Axis Identification in any two machines. **07**
- OR**
- Q.3** (a) Explain Stereolithography with neat sketch. **07**
(b) Write a short note on CIM. **07**
- Q.4** (a) Explain basic dimensioning method for CNC machines. **07**
(b) Write a short note on Computer aided part programming **07**
- OR**
- Q.4** (a) Write a short note on Recirculating ball screw and nut in CNC machines. **07**
(b) Write a short note on Configuration of Robot. **07**
- Q.5** (a) Differentiate Canned cycle, Loops and Subroutines. Explain Macros and Mirror image in part programming. **07**
(b) Prepare a part program using a canned cycle. **07**
- OR**
- Q.5** (a) Explain canned cycle with its basic operations. **07**
(b) Prepare a part program using Loops and subroutines. **07**
