

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA Integrated - SEMESTER-I • EXAMINATION – SUMMER • 2015**

**Subject Code: 4410601****Date: 02-05-2015****Subject Name: Fundamentals of Computer****Time: 10:30 am - 01:00 pm****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)** How computers have been so popular? Write about some of the areas where computers have been used. **07**
- (b)** What is an information processing system (IO system)? Illustrate the 5 basic units of computers in support of this. **07**
- Q.2 (a)** What is the classification of computer memory? Write about RAM, ROM and other types of memories. **07**
- (b)** Classify computers according to purpose, size, technology and capacity. **07**
- OR**
- (b)** Define the terms ports, slots, cards and Boards. **07**
- Q.3 (a)** Describe the logic gates with diagram and the corresponding logical tables. **07**
- (b)** Write about BIOS and CMOS settings. **07**
- OR**
- Q.3 (a)** Write about the factors affecting the speed of a processor. **07**
- (b)** What is character representation? What are the various types of data that can be represented through computers? Also discuss about different coding schemes. **07**
- Q.4 (a)** Differentiate: **07**
1. Hardware and Software
  2. System software and Application software
- (b)** What is a machine cycle? How the execution is done through it. Explain. **07**
- OR**
- Q.4 (a)** What is the function of a language translator? Differentiate between interpreter and compiler with examples. **07**
- (b)** Differentiate Random access, Direct access and Sequential access mechanism. Explain the basic principles of operations for Magnetic disks. **07**
- Q.5 (a)** Write about the following commands. **07**
- a. COPY b. COPYCON c. MD d. RD e. TYPE f. REN g. MORE
- (b)** What are the symptoms of virus infection and how does the virus spread? **07**
- OR**
- Q.5 (a)** What is OpenOffice.org? What are the advantages of using OpenOffice.org? **07**
- (b)** Write short notes on: **07**
- I. Absolute and Relative Path
  - II. Home Directory

\*\*\*\*\*