

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
