

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER-I • EXAMINATION – SUMMER • 2014

Subject Code: 4410601

Date: 18-06-2014

Subject Name: Fundamentals of Computer

Time: 02:30 pm to 05:00 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) 1. List different logic gates. Discuss about their inputs and outputs with logical tables. **4**
2. Write about the number systems briefly. **3**
- (b) 1. What is the importance of computers? Discuss applications of computers in various areas. **5**
2. Give the full form of (1) LCD (2) UPS **2**
- Q.2** (a) What is a computer memory? Discuss in brief about various types of memories. **7**
- (b) 1. Define Bus. What are the types of Buses? Explain about Buses with diagram. **6**
2. Write the full form of SMPS? **1**
- OR**
- (b) 1. What is a machine cycle? How the execution is done through it? Explain. **4**
2. Differentiate between Serial port and Parallel port. **3**
- Q.3** (a) What is a motherboard? Briefly explain the various components available on it. **7**
- (b) Write about BIOS and CMOS settings. **7**
- OR**
- Q.3** (a) Write about monitor and its types. What are the features that help in comparing different monitors? **7**
- (b) 1. Write about ports, slots, cards and boards. **4**
2. Write short notes on (1) plug-n-play (2) RTC **3**
- Q.4** (a) What is the function of a language translator? Differentiate between interpreter and compiler with example. **7**
- (b) 1. How DOS does differ from WINDOWS? **4**
2. Briefly write about wild card characters used in DOS with examples. **3**
- OR**
- Q.4** (a) What is the difference between General-purpose and Special-purpose software? Write about their advantages and disadvantages. **7**
- (b) 1. Explain DOS file system and its structure. **4**
2. Write about any three of the following commands : **3**
(1) COPY (2) MD (3) FORMAT (4) TREE (5) CLS (6) MOVE
- Q.5** (a) 1. What is computer virus? Write about any two types of viruses. **4**
2. Differentiate Absolute and Relative filenames. **3**
- (b) What is OpenOffice.org? Compare it with Windows applications. **7**
- OR**
- Q.5** (a) Write about UNIX file system. Also explain HOME, pwd, rmdir and passwd **7**
- (b) Define virus. Explain how viruses spread and also write about their preventions. **7**
