

Seat No.: _____

Enrolment No. _____

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

Subject Code: 4410603

Date: 23-06-2014

Subject Name: Fundamentals of Programming - I

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) Fill in the blanks** **07**
- 1) The _____ symbol is always the first and the last symbol in a flowchart.
 - 2) C was developed to be used by the _____ operating system.
 - 3) Typecasting is also known as _____ .
 - 4) Dangling else problem occurs when _____ .
 - 5) C enables programmer to break up a program into segments commonly known as _____ .
 - 6) main() is called by the _____ .
 - 7) _____ is used to access an element in the array.
- (b) Explain flowchart with different symbols used to draw it.** **07**
- Q.2 (a) State True or False** **07**
- 1) Code written in machine language is highly portable.
 - 2) C was developed by Bill Gates at Microsoft.
 - 3) Variable First is same as first.
 - 4) The do-while loop is a post-test loop.
 - 5) An array contains elements of the same data type.
 - 6) A C function can return only one value.
 - 7) Assignment operator can be used to copy the contents of one string into another.
- (b) Explain the significance of an assembler, interpreter and compiler.** **07**
- OR**
- (b) Write a short note on structured programming.** **07**
- Q.3 (a) List and explain the files associated with C program.** **07**
- (b)** **04**
- I) What are the rules for forming Identifier name in C.
 - II) Explain the basic data type available in C. **03**
- OR**
- Q.3 (a) List and explain different Type specifiers for scanf().** **07**
- (b) List and explain different operators available in C (Explain any Two).** **07**
- Q.4 (a) Explain followings with the help of flowchart:** **07**
- I) If-else
 - II) If-else-if
- (b) What is switch statement? Explain using example.** **07**
- OR**
- Q.4 (a) Explain any two:** **07**
- I) While loop
 - II) Do while loop
 - III) For loop

- (b) List and explain different storage classes of variable available in C. **07**
- Q.5** (a) Explain any two: **07**
I) Break statement
II) Continue statement
III) GOTO statement
- (b) What are the different operations that can be performed on an array? Explain any one in detail. **07**
- OR**
- Q.5** (a) Write a program to reverse the given string. For example, Hello → olleH **07**
(b) What are string manipulation functions in C? Explain any two. **07**
