

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)**
- I) What are the rules for forming Identifier name in C. **04**
  - 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**

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