

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 07**

**B.Sc.(IT) (2014 Batch) (Sem.-1)**

# PROGRAMMING IN 'C'

**Subject Code : BS-105**

**M.Code : 12503**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

## SECTION-A

**Q1 Answer briefly :**

- Define string. How it is different from character array?
- What is the use of continue statement in C?
- What is the purpose of the goto statement?
- State two advantages of using functions?
- In what way does an array differ from an ordinary variable?
- How is a variable's address determined?
- What are the keywords in C?
- What is the purpose of logical not operator in C?
- What are random access files?
- What is the minimum number of times that a do-while loop can be executed? What is the minimum number of times that a while loop can be executed?

## SECTION-B

- Q2 a. Compare the use of the if - else statement with the use of the ? : operator. In particular, in what way can the ? : operator be used in place of an if - else statement? Justify your answer by giving sample C code?
- b. What is switch statement? Compare the use of switch statement with else-if ladder?
- Q3 a. How are initial values written in a one-dimensional array definition? Is it must to initialize the array?
- b. Write down C program to find the length of string and to reverse the string using user defined functions
- Q4 What is the need of function? Explain in brief various types of functions in C using suitable example.
- Q5 a. Under what conditions can one pointer variable be subtracted from another? How will this difference be interpreted?
- b. What is the relationship between an array name and a pointer? How is an array name interpreted when it appears as an argument to a function?
- Q6 a. Define the term file? What are various file access modes? Explain them in brief.
- b. What is meant by opening a data file? How is this accomplished?
- Q7 a. What is meant by operator precedence? What are the relative precedences of relational logical and arithmetic operators? Give a suitable example of expression showing the usage of these.
- b. How can the number of bytes allocated to each data type be determined for a particular C compiler?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**