Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 07

B.Sc.(IT) (2013 & 2014)   (Sem.–1)
PROGRAMMING IN 'C'
Subject Code : BS-105
Paper ID : [B0403]

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 :

a) What are variable and keywords?

b) List various features of C language.

c) Define string.

d) Write a C language program to swap two numbers.

e) Differentiate while and do-while statement.

f) What is ternary operator?

g) List various advantages of a function.

h) Write a C language program to find greatest number out of three given numbers.

i) Define structure of a C program.

j) What is need of file in C language?

SECTION-B

Q2   Define data type. What are various data types in C language? Explain with example.

Q3   Write and explain a 'C' language program to find factorial of a given number using recursion.

Q4   What is call by value and call by reference? Explain with example.

Q5   Write notes on the following :

a) Features of random access file

b) String handling function

Q6   What are various conditional statements? Explain with example.

Q7   Explain the following :

a) Hierarchy of operators.

b) Dynamic memory allocation.