Seat No.

B.C.A. (Part - I) (Semester - I) (Revised)
Examination, November - 2016
PROGRAMMING IN 'C' (Part - I) (Paper - 102)
Sub. Code : 59570

Day and Date : Monday, 07-11-2016
Time : 2.30 p.m. to 5.30 p.m.

Total Marks : 80

Instructions :
1) Each questions carries 16 Marks.
2) Solve any **FOUR** questions from Q.1 to Q.7.
3) Q.8 is Compulsory.

Q1) a) What is constant? Explain different types of constants used in 'C'. **[8]**

b) Write an algorithm and Draw flowchart for calculating Simple Interest. **[8]**

Q2) a) What is looping? Explain while loop with syntax and example. **[8]**

b) Explain how to perform input and output functions in 'C'. **[8]**

Q3) a) Write a program in 'C' to generate following series. **[8]**

0   1   1   2   3   5   8

b) Differentiate between if and switch statement. **[8]**

Q4) a) Explain How to declare and initialize one dimensional array? **[8]**

b) What is use of switch statement? Explain it's working with example. **[8]**

Q5) a) Define algorithm. Explain different characteristics of an algorithm. **[8]**

b) What is use of break statement? Explain it's working with example. **[8]**

Q6) a) Explain how to handle character array with suitable example. [8]

b) What is variable? How to declare variable? Write the rules for declaration of the variable. [8]

Q7) a) List and explain the various operators used in 'C'? [8]

b) Write a program in 'C' to accept string and display whether it is palindrome or not. [8]

Q8) Attemt any <u>FOUR</u> questions from the following: [16]

a) Write features of 'C' language.

b) Explain if else statements in 'C'.

c) What are the types of errors?

d) What is the use of goto statement?

e) Explain any two string handling functions with example.

f) Explain basic data types used in 'C'.