BO—11—2016
FACULTY OF COMPUTER STUDIES
B.C.A. (First Year) (Second Semester) EXAMINATION
OCTOBER/NOVEMBER, 2016
(Revised Course)

COMPUTER APPLICATION

Paper BCA-S2.4

(Programming in C)

(Monday, 21-11-2016)   **Time : 10.00 a.m. to 1.00 p.m.**

Time— Three Hours   *Maximum Marks—80*

N.B. :—   (i)   Attempt *All* questions.

      (ii)   Assume suitable data, if necessary.

1.   Attempt the following :   20

   (a)   Explain 'getchar( )' and 'Putchar( )'.

   (b)   Explain "If-Statement".

   (c)   Describe the structure of C-program.

   (d)   What is Union ? Explain.

2.   (a)   What is flowchart ? Explain the different symbols used in flowcharts.   8

   (b)   Explain the concept of constants in C language.   7

<div align="center">Or</div>

   (c)   What is Array ? Explain the types of Array.   8

   (d)   Write a C program to display the all even numbers between 1 to 100.   7

3.   (a)   Explain the concept of pointer with suitable example.   8

   (b)   Write a program in C to interchange the values of two variables.   7

<div align="center">Or</div>

   (c)   Explain the "Structure" in C language with suitable example.   8

   (d)   Write a program in C to calculate the area of circle.   7

<div align="right">P.T.O.</div>

4. (*a*) What is programming languages ? Explain the types of programming languages. 8

   (*b*) Explain strlen( ) and strcpy( ) functions. 7

   Or

   (*c*) Explain break and continue statement in C language. 8

   (*d*) Write a program in C to calculate the sum of odd numbers between 1 to 30. 7

5. Write short notes on (any *three*) : 15

   (*a*) Keywords

   (*b*) Do-while loop

   (*c*) fopen( ) and fclose( )

   (*d*) Recursion.