

14-12-2019

Roll No. ....  
Printed Pages : 2

1195

**BCA / D-19**  
**PROGRAMMING IN 'C'**  
**Paper-BCA-116**

*Time allowed : 3 hours]*

*[Maximum marks : 80*

*Note : Attempt five questions in all. Question No. 1 is compulsory. In addition to compulsory question, attempt four more questions selecting one question from each unit.*

**Compulsory Question**

1. (a) How are octal and hexadecimal integer constants represented ?
- (b) Is WHILE loop exit controlled or entry controlled loop? Why?
- (c) Is it necessary that loop counter only of Int data type ?
- (d) What is the purpose of return statement ?
- (e) List the advantages of Function.
- (f) Which variable are given preference in function : Local or Global ?  
4,2,2,2,4,2

**Unit-I**

2. Explain the structure of C Program. 16
3. Explain the various output functions available in 'C'. 16

**Unit-II**

4. Explain various IF statements available in 'C'. Give examples. 16
5. Explain unary, assignment and conditional operators available in 'C' giving examples. 16

1195

[Turn over

(2)

### Unit-III

6. (a) What rules are followed for nesting of loops ?  
(b) Write a program to sum the series  $1 + x^3 + x^5 + x^7 + \dots + x^n$  upto n terms. 6,10
7. (a) What is recursion ? When the recursive function stop calling itself?  
(b) Write a recursive function to reverse a string. 8,8

### Unit-IV

8. (a) Explain with example Register storage class.  
(b) Explain How array is passed to Function ? 8,8
9. (a) How two dimensional array is declared, initialized and referenced ?  
(b) Write a program to find sum of diagonal elements of a square matrix. 6,10

