



HBN-1171

Seat No. 1909

B. C. A. (Sem. II) Examination

April / May - 2015

BCA - 201 : Advanced Programming
Language 'C'

: Hours]

[Total Marks : 70

(a) Answer the following questions. 4

(i) By default integer is return type of a c-function. (true/false)

(ii) A function that calls itself is known as recursion function.

(iii) The parameters used in a function call are actual parameters. (true/false)

(iv) Define terms Actual Arguments.

(b) Answer the following questions : (any two) 8

(i) Explain category of function with example.

(ii) What is Recursion ? Explain with example.

(iii) Discuss about scope, visibility and lifetime of variables.

(a) Do as directed :

(i) Explain term structure. 4

(ii) What is bit - field ?

(iii) Size of operator.

(iv) Explain term union.

- (b) Answer the following questions : (any two) 8
- (i) Write a short note on structure with example.
 - (ii) Array within structure.
 - (iii) Difference between structure and union.

- 3 (a) Answer the following questions : 4
- (i) A pointer variable contains as it's value the _____ of another variable.
 - (ii) A pointer variable can be initialized with NULL or ZERO value. (true/false)
 - (iii) Define terms : Chain of pointers.
 - (iv) Two pointer variable cannot be added. (true/false)

- (b) Answer the following questions : (any two) 8
- (i) What is pointer ? Benefits of pointers.
 - (ii) Explain pointer to Array with example.
 - (iii) Call by value and call by reference. Explain with suitable example.

- 4 (a) State the purpose of following functions. 4
- (i) FOpen()
 - (ii) FPrintf()
 - (iii) getw()
 - (iv) rewind().

- (b) Answer the following questions : (any two) 8
- (i) What is file ? Discuss different types of mode of file.
 - (ii) Write a short note on command line argument.
 - (iii) Explain various preprocessor directives.

(a) Attempt any two from the following :

- (i) Write a program to find factorial of given number using recursion.
- (ii) Write a program to swap value of two integer number using UDF.
- (iii) Define a structure student-record to contain name, branch and total marks obtained. Develop a program to read data for 10 students in a class and print them.

(b) Attempt any two from the following :

- (i) Write a program to accept 10 numbers and sort them with use of pointer.
 - (ii) Write a program with structure and pointer.
 - (iii) A file named data contains series of integer no. Write a 'C' program to read that no and then. Write all odd no. into file name odd no. and write all even no. into file name even no. Display all the contents of file on screen.
-

12