

Code No. : B-405(A)**Annual Examination - 2017****BCA-I****BCA-103****PROGRAMMING IN 'C' LANGUAGE****Max.Marks : 100****Time : 3 Hrs.****Min Marks : 40**

Note :Section 'A' containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section-'A'

Very short answer type questions. Answer in one or two lines. (2x10=20)

- Q.1 What is user defined data type? Write the three user defined data types.
- Q.2 What is keyword? Write any five keywords name.
- Q.3 What is array?
- Q.4 What is string in 'C' language?
- Q.5 Write any one difference between Structure and Union.
- Q.6 Write the different ways of parameter passing in function with an example.
- Q.7 Write a factorical program using recursion.
- Q.8 What is type casting? Write an example?
- Q.9 What is nested if statement?
- Q.10 What is preprocessor directive?

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Section-'B'

**Short answer type questions with word limit 150-200
(6x5=30)**

Q.1 What is conditional statement? Explain in brief.

OR

Write a program to find the greatest number among three numbers.

Q.2 Write a program to multiply two 3 x 3 matrix.

OR

Write a function to swap two numbers by using call by reference.

Q.3 What is Structure? Explain with an example.

OR

What is the use of enum keyword? Explain with an example.

Q.4 What is pointer? Write an example to access the elements of an array using pointer.

OR

What is dynamic memory allocation? Explain malloc() function with an example.

Q.5 What is file? Write the different operations performed in a file

OR

Write a file handling program to copy the contents of one file to another file.

Section-'C'

**Long answer type questions with word limit 300-350
(10x5=50)**

Q.1 Write a program, find the sum of 5 digits number given by user.

OR

Write a program to input marks of five different subjects and print the average marks as well as overall grade.

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Q.2 What is function? Write a function to reverse a string.

OR

Explain two dimensional array. Write a program to search an element in one dimensional array.

Q.3 What is union? How it is different from structure? Write a program to implement structure for handling employee records.

OR

What is nested structure? Write a program to implement the nested structure.

Q.4 What is pointer to pointer? Explain with an example and also implement the pointer arithmetic operation.

OR

Describe calloc, realloc and free functions.

Q.5 Describe fopen(), fclose(), fread(), fwrite().

OR

Write a program to implement preprocessor directives.

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