Roll No.....

Total No. of Questions : 13] **[Total No. of Pages : 02**

J-3167[S-1023]

[2037]
BCA (Semester - 1st)
PROGRAMMING IN C
(BCA - 104)

Time : 03 Hours **Maximum Marks : 75**

Instruction to Candidates:

1) Section - A is **compulsory.**
2) Attempt any **Nine** questions from Section - B.

Section - A

Q1) ***(15 x 2 = 30)***

a) What is the Working principle of prefix operators? Give example.

b) What is the significance of **gets** function?

c) What are library functions?

d) What are symbolic constants? Give examples.

e) What are the naming rules of identifier?

f) Differentiate between for and while loop.

g) What are the advantages of user-defined functions?

h) What are storage classes?

i) What is dynamic memory allocation?

j) List the applications of pointers in C.

k) What are the conditions to perform recursion?

1) Differentiate between structures and unions.

m) What are the advantages of data file over other data types?

n) What are the advantages of structures?

o) How is binary search different from linear search?

Section - B

(9 x *5 = 45)*

Q2) Explain basic data types available in C with the help of example.

Q3) Discuss the various operators available in C with the help of example.

Q4) Write a program to swap two integer numbers without using the temporary variable.

Q5) Explain the following constants with examples :

(a) Octal Integer Constants (b) Hexadecimal Integer Constants.

Q6) Write a short note on Recursion v/s Iteration.

Q7) Explain the difference between break and continue statements with example(s).

Q8) Write a program to find the sum of digits of an integer number entered by the user.

Q9) Explain with example relationship between single dimensional array and pointers.

Q10) Write a program in C to sort in ascending order integer elements of one-dimensional array.

Q11) Explain array of structures with example.

Q12) Write a program to create a file and display its contents. Assume suitable data.

Q13) Explain with example passing of structure to function.