Roll No. ....

Total No. of Questions : 07]   [Total No. of Pages : 02

Paper ID [BC104]

(Please fill this Paper ID in OMR Sheet)

BCA (Sem. - 1ˢᵗ)

PROGRAMMING IN 'C' (BC -104)

Time : 03 Hours   Maximum Marks : 60

Instruction to Candidates:

1)   Section - A is **Compulsory**.

2)   Attempt any **Four** questions from Section - **B**.

Section - A

Q1)   (10 × 2 = 20)

a)   Does modulus operator work for floating numbers in C? Explain the role of this operator.

b)   Differentiate between switch and if-else statement.

c)   What are library functions?

d)   What is a dangling pointer?

e)   What is pointer to pointer?

f)   What are the different ways to declare a structure variable?

g)   What are the advantages of data files?

h)   What do you understand by complexity?

i)   What is the significance of **gets** and **puts** function?

j)   What are limitations of union?

Section - B

(4 × 10 = 40)

Q2)   Explain File handling. Write a program to create a file and display its contents. Assume suitable data.

Q3)   Explain differences between call by reference and call by value with suitable examples.

Q4)   Explain differences between structures and unions with a suitable example.

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Q5) Compare recursion with iteration. Also write a recursive program to find GCD of two numbers.

Q6) Write the algorithm and program for any sorting technique.

Q7) Discuss in detail with examples differences between all the four storage classes.