

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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P.T.O.

- 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.