Roll I	No.	•••••	
Total	No	of Questions	071

[Total No. of Pages: 02

Paper ID [B0204]

(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)

 $(10 \times 2 = 20)$

- What is the role of modulus operator in C? Does it work for floatinga) Differentiate between break and continue statement.
- b)
- What are the various built-in data types in C? c)
- d) What is a dangling pointer?
- What is significance of **calloc** function in C? e)
- What are the different ways to declare a structure variable? f)
- What are different modes in which a file can be opened? g)
- What do you understand by complexity? h)
- Can time delay be generated in C through loops? If yes, how? i)
- What are limitations of union? j)

Section - B

 $(4 \times 10 = 40)$

- **Q2)** Write short note on:
 - (a) File handling
- (b) Pointer Arithmetic
- Q3) Write a program to multiply two 2-D matrices.
- **Q4)** Explain nesting of structures with example. Also state differences between structure and union.
- **Q5)** Compare recursion with iteration. Also write a recursive program to find LCM of two numbers.
- Q6) Write the algorithm and program for any searching technique.
- **Q7)** Discuss in detail with examples differences between all the four storage classes.

