

2022

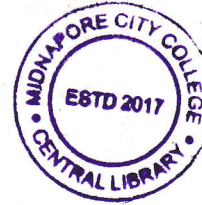
**BCA 1st Semester (CBCS) Examination**

**Introduction to Programming**

PAPER — CC — 2T

Full Marks : 50

Time : 2 hours



*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers  
in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer from **all** the Groups as directed.

**GROUP—A**

1. Answer *any five* questions : 2×5=10

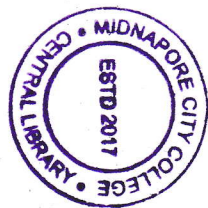
*(a)* What do you mean by type casting?

*(b)* What is enum in C?

*(c)* What do you mean by printf()?

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(Turn Over)



( 2 )

- (d) What is the use of macro? 5
- (e) What is the difference between global and local variables? 5
- (f) What do you mean by preprocessor directives in C? 5
- (g) What is ternary operator in C language? 5
- (h) What are the differences between entry controlled loop and exit controlled loop? 5

**GROUP—B**

2. Answer any four questions :

- (a) Explain the different storage classes in C. 5
- (b) What is the purpose of break and continue statement in a loop? What are the disadvantages of using recursion? 3+2=5
- (c) What do you mean by array of pointer and pointer to an array? Explain with a suitable example. 2+3=5
- (d) What is the difference between '=' and '==' symbols? What are the differences between getch() and getche()? 2+3=5

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(Continued)

( 3 )

- (e) Explain the terms 'call by value' and 'call by reference' with suitable examples. 5
- (f) Write a C program to calculate the sum of two integers using command line arguments. 5

**GROUP—C**

Answer any two questions :

- 3. (a) Write a C program to calculate a \* b using recursion. 5
- (b) What are the limitations of array? 2
- (c) What is the difference between structure and union in C? 3



- 4. (a) Write a C program to calculate the length of a string without using library function. 5
- (b) Write a C program to check whether a number is prime or not. 5
- 5. (a) What are dangling and null pointers? 4
- (b) What do you mean by far pointer, near pointer and huge pointer? 6

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(Turn Over)

( 4 )

6. (a) Write a program in C to copy the contents of one file to another file. (Take the file names as an input.) 5
- (b) What is dynamic memory allocation? What is the use of malloc() function in C? What is the return value of malloc()? 5

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