

END TERM EXAMINATION

FIRST SEMESTER (BCA) JANUARY 2024

Paper Code: BCA-103

Subject: Programming Using 'C' Language

Time: 3 Hours

Maximum Marks: 60

Note: Attempt five questions in all including Q. no.1 which is compulsory.
Select one question from each unit.

Q1 Write short notes of the following:

(2x10=20)

- (a) ✓ What are shorthand assignment operators?
- (b) ✓ What is #define and write its syntax?
- (c) ✓ Differentiate between call by value and call by reference.
- (d) ✓ Name the language necessarily need heap allocation in the run time environment and why?
- (e) ✓ Define static storage class.
- (f) ✓ What is typecasting?
- (g) ✓ Define self-referential structure.
- (h) ✓ Name functions of standard library process.h.
- (i) ✓ Write usage of command line arguments.
- (j) ✓ Define memory allocation for structure and array.

UNIT-I

- Q2 (a) Write a C program to check Least Significant Bit (LSB) of a number is set or not. (5)
- (b) Explain nested control structure with an example. (5)
- Q3 (a) ✓ Explain labelled continue statement with flow diagram. (5)
- (b) ✓ Write a program to check whether the number is even or not and print using the goto statement. (5)

UNIT-II

- Q4 (a) ✓ Write a C program to calculate sum of array elements using pointers. (5)
- (b) ✓ Explain the pointers for inter-function communication. (5)
- Q5 (a) Write a program to find out maximum number in array using pointer. (5)
- (b) What are callback functions and how functions can be passed to other functions as an argument. (5)

P.T.O.

UNIT-III

- Q6 (a) Write a C program to access members of a structure using pointers. (5)
(b) Why do we need File Handling? Write types of files and functions in file operations. (5)
- Q7 (a) Write a C program using passing structure by reference. (5)
(b) Explain file positioning functions. (5)

UNIT-IV

- Q8 (a) Write a C program to calculate the sine of an argument. (5)
(b) Explain string library functions with suitable example. (5)
- Q9 (a) Write a program in C that write 10 integers in data.txt file and copy into the duplicate.txt file. (5)
(b) Define virtual functions. Explain wide char and library functions. (5)

<https://www.ggsipuonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से