2024/TDC (CBCS)/EVEN/SEM/ BVOCGEC–202T/398

TDC (CBCS) Even Semester Exam., 2024

Bachelor of Vocational Course
(Information Technology)

(2nd Semester)

Course No. : BVOCGEC–202T

(Programming in C)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

_The figures in the margin indicate full marks
for the questions_

Answer **four** questions, choosing **one**
from each Unit

UNIT—I

1. *(a)* Write short notes on the following with
examples :   8

   (i) Identifiers

   (ii) Keywords

(2)

(iii) Constants

(iv) Variables

(b) Write the syntax of defining and initializing a variable. Explain the scope of variables. 4+5=9

2. *(a)* What is C operator? Explain arithmetic, logical and bitwise operators with examples. 1+10=11

(b) Define C standard library function with example. Write the advantages of using C standard library functions. 1+3=4

(c) Why are we using "stdio.h" and "conio.h" basic header files in writing C program? 2

UNIT—II

3. *(a)* What is an array? Write the syntax for declaring and initializing an array with example. 1+5=6

(b) What do you mean by two-dimensional array? Define and initialize a two-dimensional array. 2+4=6

(c) Write a program to print all the elements of an array. 5

(3)

4. *(a)* How can we manipulate array elements in C using for loops? Write a C program for implementing addition of two vectors. 4+10=14

(b) Write short notes on the following array data types with examples : 3

(i) Integer

(ii) Float

(iii) Character

UNIT—III

5. *(a)* What is function in C? Write the general form of defining a function in C programming language with description of all parts of a function. 2+6=8

(b) In how many ways we can pass an argument while calling a function? Explain with examples. 2+8=10

6. *(a)* Explain C function arguments and return value. 10

(b) What is pointer in C? Declare and initialize a pointer in C with example. 2+6=8

(4)

UNIT—IV

7. *(a)* What is structure in C? Write the syntax for defining a structure with example.

2+6=8

(b) Explain the following with examples : 10

(i) Accessing structure members

(ii) Pointers to structure

8. How to open and close a data file in C? Write a C program to open a file, write in it and close the file.

6+12=18

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