2022/TDC(CBCS)/EVEN/SEM/ BVOCGE-202T/368

TDC (CBCS) Even Semester Exam., 2022

BVOC (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No.: BVOCGE-202T

(Programming in C)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer any two questions:

- 1. (a) Write short notes on the following with examples: 2×4=8
 - (i) Identifiers
 - (ii) Keywords
 - (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 arithmatic, 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 function. 1+3=4
 - (c) Why are we using "stdio.h" and "conio.h" basic header files in writing C program?
- 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.

4. (a) How can we manipulate array elements in C using for loop? Write a C program for implementing addition of two vectors.

- (b) Write short notes on the following array data types with example: 1×3=3
 - (i) Integer
 - (ii) Float
 - (iii) Character

SECTION—B

Answer any two questions:

- 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 example. 2+8=10
- 6. (a) Explain C function arguments and return value.
 - (b) What is pointer in C? Declare and initialize a pointer in C with example.

 2+6=8
- 7. (a) What is structure in C? Write the syntax for defining a structure with example. 2+6=8

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(4)

- (b) Explain the following with example: $5\times2=10$
 - (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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