

TDC Odd Semester Exam., 2020
held in July, 2021

UNIT—II

COMPUTER SCIENCE

(Honours)

(1st Semester)

Course No. : BCSH-101

(Programming with C)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. (a) Explain different primitive data types used in C. 4
- (b) What are the differences between character constant and string constant? 2
- (c) Define keyword. 1
2. Describe the different control statements used in C. 7

3. (a) What is user-defined function? How is it different from C library function? 4
- (b) Write a function to calculate factorial value of a positive integer using recursion. 3
4. Explain the following classes of variables : 7
- (a) Automatic
- (b) External
- (c) Static

UNIT—III

5. (a) Define pointer. Explain the purpose of indirection operator with the help of an example. 3
- (b) What are the operations that can be carried out on pointers? Explain. 4
6. Define an integer pointer array of 10 integers. Initialize them to any integer values from the keyboard. Find the sum, average, maximum and minimum of these integers. 7

(3)

UNIT—IV

7. (a) Explain the difference between structure and union with suitable example. 4
- (b) Explain self-referential structure. 3
8. Define structure and union. How are structure elements stored in memory? List some uses of structure. 2+3+2=7

UNIT—V

9. Write a C program to concatenate two files. 7
10. (a) What is the primary advantage in using a data file? 2
- (b) Explain two different approaches to update data file. 5

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