UNIVERSITY OF NORTH BENGAL

B.Sc. Programme 2nd Semester Examination, 2022

DSC1/2/3-P2-COMPUTER SCIENCE

PROGRAMMING FUNDAMENTALS USING C

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any *five* questions of the following   1×5 = 5

1.   What is the different storage class specifying in C?

2.   When should we use pointers in a C program?

3.   What is static variable? What is their use?

4.   State the purpose of volatile keyword.

5.   What is the meaning of base address of an array?

6.   Does built-in header file contain built-in function definition?

7.   How can you print a \ (back slash) using printf() function?

8.   What are command line arguments?

GROUP-B

Answer any *three* questions of the following   5×3 = 15

9.   Write a program to read data from keyboard, write it to a file 'X' again read the same data from file 'X' and display it.

10. Describe the structure of C program.

11. Define function. Explain its general format.

12. Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into Centigrade degrees.

13. What is entry-control and exit-control loops? Give examples. What are the purpose of break and continue statement?

GROUP-C

Answer any *two* questions of the following   10×2 = 20

14. Define expressions. List various types of operators also give their precedence.

15. Write the general syntax and working of Switch and goto statement in C Language.

16. What are strings? Explain the syntax to copy one string to another.

17. Write a C program to find the factorial of a given number using recursion.

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