UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2019

CC1-COMPUTER SCIENCE

PROGRAMMING FUNDAMENTALS USING C

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks
Candidates should answer in their own words and adhere to the word limit as practicable
All symbols are of usual significance

GROUP-A

1. Answer any *five* questions from the following:

    1×5 = 5

    (a) What is the use of break statement?

    (b) What is the significance of & symbol?

    (c) What is formal parameter?

    (d) What is the significance of # symbol?

    (e) What is ternary operator?

    (f) What is the meaning of "= =" operator?

    (g) Name one logical operator.

    (h) What is recursion?

GROUP-B

2. Answer any *three* questions from the following:

    5×3 = 15

    (a) Write a short note on "C Header files".

    (b) Discuss the significance of main() function. Write down the steps to compile a source file in C.

    (c) Discuss casting of data types by giving examples.

    (d) Differentiate between call by value and call by reference.

    (e) Discuss array of structures in C by giving an example.

GROUP-C

3. Answer any *two* questions from the following:

    10×2 = 20

    (a) What is file? How do you open and close a file? Discuss random access in files.

    (b) Write a program in C to multiply two polynomials.

    (c) Write a program in C to check if a string is palindrome or not.

    (d) Differentiate between static and dynamic memory allocation. What is the use of malloc(), calloc() and free() functions?

    (e) What are references? Discuss the use of references as function arguments and function return values.

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