



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 1st Semester Examinations, 2018

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*

GROUP-A

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

1×5 = 5

- (a) What is the use of continue statement?
- ✓ (b) What is pointer?
- (c) What is the difference between actual and formal parameter?
- ✓ (d) What are preprocessor directives?
- (e) Give name of at least four 'C' compilers.
- (f) What is the use of sizeof()?
- ✓ (g) What is the difference between a character and a string?
- ✓ (h) What is a header file? Why is it used?

gcc -c Borland c.

GROUP-B

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

5×3 = 15

- ✓ (a) Explain the different types of operators in C.
- ✓ (b) Write down the properties of 'C' as a type of programming languages. Explain briefly these properties.
- (c) What are enumerated data types? Explain with suitable example
- (d) Explain the concept of recursive functions with the help of a suitable example.
- ✓ (e) Demonstrate the use of switch statement with the help of a suitable example.

GROUP-C

3. Answer any *two* questions from the following: 10×2 = 20

- ✓(a) Discuss the different iterative controls available in C with the help of small program segments.
- (b) Explain the various types of primitive data types available in C with their purpose of usage.
- (c) What is a file? Explain the different file opening modes supported in C with their suitability. Give a suitable example.
- ✓(d) Discuss the different type of user defined data types supported in 'C' with the help of a program segment.
- (e) What are arrays? Why arrays are required? Explain with the help of a program segment how arrays can be implemented using pointers.

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