

## UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2021

## **CC1-COMPUTER SCIENCE (12)**

## PROGRAMMING FUNDAMENTALS USING C

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks. All symbols are of usual significance.

1. Answer any *five* questions:

 $1 \times 5 = 5$ 

- (a) Mention the name of two header files.
- (b) What is the maximum value of **int** data type for a 16-bit compiler?
- (c) Write the value of *n* where n = 21/4 and *n* is an integer.
- (d) What are the Logical operators?
- (e) What is the initial value for indexing of any array?
- (f) Mention four keywords.
- (g) What are the loops used in C programming?
- (h) An array int rn[32] stores students roll number. Which student is indicated by rn[2]-First/Second/Third.
- 2. Answer any *three* questions:

 $5 \times 3 = 15$ 

- (a) With suitable example discuss the use of break statement.
- (b) Explain Pointer with appropriate example.
- (c) Explain Typecasting with suitable example.
- (d) Explain Formal arguments and Actual arguments with example.
- (e) Write the output of the following program and explain your answer.

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3. Answer any *two* questions:

 $10 \times 2 = 20$ 

- (a) Compare while loop and do-while loop with suitable examples.
- (b) For function calling explain Call by value and Call by reference with examples.
- (c) Write a program using function to check whether a given number is a Prime or not.
- (d) Write a program in C to copy a file and explain your program-code in short.

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