



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 1st Semester Examination, 2022

**CC1-COMPUTER SCIENCE (12)**  
**PROGRAMMING FUNDAMENTALS USING C**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions: 1×5 = 5
  - (a) What are the four storage classes used in C language?
  - (b) What is the scope of a variable?
  - (c) Write the minimum value of **int** data type for a 16-bit compiler.
  - (d) Who is known as the father of C language?
  - (e) Let a C-program has only one function. Write the name of the function.
  - (f) The break is used for: (i) Quit the program, (ii) Quit the current iteration, (iii) None.
  - (g) The C preprocessors are specified with a symbol: (i) #, (ii) &, (iii) @, (iv) None.
  - (h) Which is not a valid C variable? (i) avg, (ii) fact, (iii) #num, (iv) variable\_num.
  
2. Answer any **three** questions: 5×3 = 15
  - (a) For function calling write notes on Call by reference.
  - (b) Explain Nested loop with suitable example.
  - (c) Explain with example Function Definition and Function Declaration.
  - (d) Discuss Pointer of Pointer with suitable example.
  - (e) Point out the errors, if any, in the following program and also write the output of the following program if errors are removed.  
void main()  
{  
    int m = 1000;  
    if(m<1234 && m! = 999);  
        printf("\n m = %d : It is a Millennium number",m);  
    else  
        printf("\n Wrong entry");  
}
  
3. Answer any **two** questions: 10×2 = 20
  - (a) Explain the switch statement used in C programming with suitable example.
  - (b) Discuss different types of operators used in C programming language.
  - (c) Write a C program to add two 3×4 matrices.
  - (d) Write a C program to copy the contents a file source.txt to a new file target.txt and explain your program-code in brief.

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