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Name of Examination : **FY Winter 2021** - (Preview)Course Code & Course Name : **CO101U - Programming for Problem Solving**Generated At : **18-05-2022 11:30:36**Maximum Marks : **60**Duration : **3 Hrs**[Edit](#)[Print](#)[View Answer Key](#)[Close](#)**Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical**Instructions:**

1. Solve any two sub questions from Q.No. 1, 2, 3 and Q.No. 4 & 5 are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) Solve any two sub questions
 - a) Define algorithm & explain properties of algorithms? [06]
 - b) Explain basic Data Types in 'C' programming? [06]
 - c) Explain components of computer system? [06]
- 2) Solve any two sub questions
 - a) Write a program to print given number is palindrome number or not in C. [06]
 - b) Explain use of gets and puts function in C program with example? [06]
 - c) Differentiate while and do-while loop with an example? [06]
- 3) Solve any two sub questions
 - a) How to define, declare, and accessing a function with any one example? [06]
 - b) Write a program in C to demonstrate structure? [06]
 - c) Write a program in C to subtract two matrices of size 3x3. [06]
- 4)
 - a) Explain bubble sort algorithm? [06]
 - b) Explain linear search algorithm? [06]
- 5)
 - a) Explain all the input and output operations on files? [06]
 - b) Write a C program to open a file. [06]

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