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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CO101U - Programming for Problem Solving**

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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. *All questions 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.*

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1)   Solve any two sub questions

a) **Define algorithm & explain properties of algorithms?**   [6]

b) **Explain basic Data Types in 'C' programming?**   [6]

c) **Describe components of computer system?**   [6]

2)   Solve any two sub questions

a) **Write a program to print given number is palindrome in C.**   [6]

b) **Explain use of gets and puts function in C program with example?**   [6]

c) **Describe while and do-while loop with an example?**   [6]

3)   Solve any two sub questions

a) **How to define, declare, and accessing a function with any one example?**   [6]

b) **How to access the array elements with suitable example?**   [6]

c) **Write a program in C to addition of two matrices of size 3x3.**   [6]

4) a) **Explain bubble sort algorithm?**   [6]

b) **Explain linear search algorithm?**   [6]

5) a) **What are the different input and output operations on files?**   [6]

b) **Write a C program to open & close a file.**   [6]

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