



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **FY Winter 2021** - (Preview)

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

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Maximum Marks : **60**

Duration : **3 Hrs**

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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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