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FIRST SEMESTER

MID TERM EXAMINATION

B.Tech.(IT) Jaan Ke Roll No. Ky. o Krega

March 2024

Max.Marks:20

CO 101/102 - Programming Fundamentals

Time: 1.5 Hours

Note: Attempt all questions.

All questions carry equal marks

Assume suitable missing data, if any.

1) a) i) boolean - Is this a data type or a relational operator?

iii) /- When seen in code, is this a division slash or a secret passage ii) double - Is this a data type or a bitwise operator?

leading to arithmetic operations in programming? iv) % - Determine if this is a data type or an arithmetic operator.

respective representations and use case. dimensional array. Provide an example for each, showcasing their Mustrate the difference between a one-dimensional and a two-[CO3][3]

2) a) Explain the difference between "break" and "continue" statements

b) Create a program that uses a "switch" statement to determine the day with the help of an example?

c) Difference between do and do while loop? of the week based on a user-input numerical value (1 for Monday, 2 for Tuesday, etc.). N. A. [CO2][1]

3) a) In a computer's memory, a specific location is represented by the hexadecimal address 0x1A7F. If you convert this address to binary, what is the binary representation of this memory location? [CO1][2] b) Difference between for loop and while loop? c) Create a program with nested loops to generate the [CO2][1] following [CO2][2]

examples?

4) a) Explain the operations that can be performed on arrays and provide c) Difference between structure and union? b) What is nested loop? Explain with example? [CO3][1] [C02][2]

while loop checks the Condition

do volite takes an input executes

further checks the condition and one. and exe (use