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| **TERM END EXAMINATIONS (TEE) – December 2021- January 2022** | | | | | | | | | | |
| **Programme** | | | **:** | **B.Tech.- BAI,BAS,BCE,BCY,BEC,BHI,BME,BOE,BSAMIP** | | **Semester** | | **:** | **Fall 2021-22** | |
| **Course Name** | | | **:** | **Introduction to Problem Solving and Programming** | | **Course Code** | | **:** | **CSE1021** | |
| **Faculty Name** | | | **:** | **Dr. Kannan Shanmugam** | | **Slot / Class No** | | **:** | **C21+C22+C23/0112** | |
| **Time** | | | **:** | **1½ hours** | | **Max. Marks** | | **:** | **50** | |
| **Answer ALL the Questions** | | | | | | | | | | |
| **Q. No.** | **Question Description** | | | | | | | | | **Marks** |
| **PART - A ( 30 Marks)** | | | | | | | | | | |
| 1 | (a) | Write a pseudo code and draw a flow chart for finding an element in an unsorted integer array. | | | | | | | | 10 |
| OR | | | | | | | | | |
| (b) | Define Tuple in python. Demonstrate the following Tuple operations with syntax and example code   1. Access a tuple item with negative indexing 2. To check if item is exists using for loop 3. Change an item in tuple 4. Remove an item from tuple 5. Unpacking a tuple with \* | | | | | | | | 10 |
| 2 | (a) | Write a program in python to find and print ALL the PRIME number in a given limit | | | | | | | | 10 |
| OR | | | | | | | | | |
| (b) | Demonstrate the following conditional and looping statements with example program   1. while 2. for 3. if | | | | | | | | 10 |
| 3 | (a) | Write a program in python to find Nth largest element in an integer array | | | | | | | | 10 |
| OR | | | | | | | | | |
| (b) | Write a program to generate a list of Armstrong numbers in a range | | | | | | | | 10 |
| **PART - B (20 Marks)** | | | | | | | | | | |
| 4 | | Demonstrate the following array operations in an character array with code   1. Program to Find no. of occurrences of an element 2. Program to Remove the duplicate values | | | | | | | | 10 |
| 5 | | Write a program to greatest common divisor of any three numbers | | | | | | | | 10 |
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