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| **TERM END EXAMINATIONS (TEE) – January 2021** | | | | | | | | |
| **Programme** | | | **B.Tech** | | **Semester** | | **Fall 2020-2021** | |
| **Course Name** | | | **Introduction to Problem Solving and Programing** | | **Course Code** | | **CSE1021** | |
| **Faculty Name** | | | **Dr. Kanchan Lata Kashyap** | | **Slot / Class No** | | **D11+D12+D13/1494** | |
| **Time** | | | **1½ hours** | | **Max. Marks** | | **50** | |
| **Answer ALL the Questions** | | | | | | | | |
| **Q. No.** | **Question Description** | | | | | | | **Marks** |
| **PART - A – (3 x 10 = 30 Marks)** | | | | | | | | |
| 1 | (a) | Write an algorithm and flow chart to check whether the entered number of perfect number or not? | | | | | | 10 |
| OR | | | | | | | |
| (b) | Write an algorithm and flowchart to find the multiple of any entered number. | | | | | | 10 |
| 2 | (a) | Write Python Program to reverse a number and also find the Sum of digits in the reversed number. Prompt the user for input. | | | | | | 10 |
| OR | | | | | | | |
| (b) | Input five integers (+ve and −ve). Write Python code to find the sum of negative numbers, positive numbers and print them. | | | | | | 10 |
| 3 | (a) | Write Python program to count the number of array elements which are divisible by both 3 and 5. | | | | | | 10 |
| OR | | | | | | | |
| (b) | Write Python code to find Mean, Variance and Standard Deviation for a list of numbers. | | | | | | 10 |
| **Part - B – (2 x 10 = 20 Marks)** | | | | | | | | |
| 4 | | Write output of following code  >>a = {2, 4, 5, 9}  >> b = {2, 4, 11, 12}  >> a.union(b)  >> a.intersection(b)  >> a.difference(b)  >>s = set([1, 2, 3, 4, 5, 6, 7, 8, 9])  >>s.discard(5)  >>print(s) | | | | | | 10 |
| 5 | | Write a python function to check for the even number, odd number, and number prime number. Call all three functions in main python program and show the output. | | | | | | 10 |
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