



B.Tech - Even Sem : Semester in Exam-I
Academic Year:2021-2022

20AD1202 - Object Oriented Programming System

Set No: 3

Time:		Max.Marks: 50					
S.NO	Answer All Questions	Choice	Options	Marks	CO	CO BTL	COI BTL
1.	Write a Python Program to print all integers that aren't divisible by either 2 or 3 and lies between 1 and 50.	choice Q-2		4.5Marks	CO1	3	3
2.	What are the properties of a tuple and explain count(), index(), membership operators with an example			4.5Marks	CO1	3	3
3.	Write a function that counts the number of letters in a string using the following header: def countLetters(s): Write a test program that prompts the user to enter a string and displays the number of letters in the string.	choice Q-4		8Marks	CO1	3	3
4.	Write an if statement that asks for the user's name via input() function. If the name is "Bond" make it print "Welcome on board 007." Otherwise make it print "Good morning NAME". (Replace Name with user's name). if the name is bond with lower case b it still prints "Welcome on board 007."			8Marks	CO1	3	3
5.	Answer both A and B	choice Q-6		12.5Marks	CO1	3	3
5.A.	Write a Python Program to remove the characters of odd index values in a string.			6.5Marks	CO1	3	3
5.B.	Write a program takes a string and calculates the number of digits and letters in a string.			6Marks	CO1	3	3
6.	Answer both A and B			12.5Marks	CO1	3	3
6.A.	Given a list iterate it and display numbers which are divisible by 5 and if you find number greater than 150 stop the loop iteration list1 = [12, 15, 32, 42, 55, 75, 122, 132, 150, 180, 200] Expected output: 15 55 75 150			6.5Marks	CO1	3	3
6.B.	Take integer inputs from user until he/she presses q (Ask to press q to quit after every integer input). Print average and product of all numbers.			6Marks	CO1	3	3
7.	Suppose a dictionary named students is {"john":3, "peter":2}. What do the following statements do? (a) print(len(students)) (b) print(students.keys()) (c) print(students.values()) (d) print(students.items())	choice Q-8		4.5Marks	CO2	3	3
8.	Explain about set functions 1.issuperset() 2.issubset() 3. union() 4.symmetricdifference			4.5Marks	CO2	3	3

9.	Write a Python function named numVowels that is passed a string containing letters, each of which may be in either uppercase or lowercase, and returns a tuple containing the number of vowels and the number of consonants the string contains.	choice Q-10		8Marks	CO2	3	3
10.	Write statements to do the following: (a) Create a list with 100 Boolean False values. (b) Assign the value 5.5 to the last element in the list. (c) Display the sum of the first two elements. (d) Compute the sum of the first five elements in the list. (e) Find the minimum element in the list.			8Marks	CO2	3	3
11.	Define a class called Bike that accepts a string and a float as input, and assigns those inputs respectively to two instance variables, color and price. Assign to the variable testOne an instance of Bike whose color is blue and whose price is 89.99. Assign to the variable testTwo an instance of Bike whose color is purple and whose price is 25.0. Bike price should not be greater than 100.00. Use setters and getters. Include __str__() method to print price of a bike and color	choice Q-12		12.5Marks	CO2	3	3
12.	1. Create a Python class called BankAccount which represents a bank account, having as attributes: accountNumber (numeric type), name (name of the account owner as string type), balance. 2. Create a constructor with parameters: accountNumber, name, balance. 3. Create a Deposit() method which manages the deposit actions. 4. Create a Withdrawal() method which manages withdrawals actions. 5. Create an bankFees() method to apply the bank fees with a percentage of 5% of the balance account. 6. Create a display() method to display account details. 7. Give the complete code for the BankAccount class.			12.5Marks	CO2	3	3

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