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ABEDA INAMDAR SENIOR COLLEGE

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S.Y.B.C.A. (Science) Practical Examination (2021 Pattern)

(Lab Course II) SEM IV

21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which finds sum of digits of a number. [10]

Q2. Define a class Date (Day, Month, Year) with functions to accept and display it. Accept date from user. Throw user defined exception "invalidDateException" if the date is invalid. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to calculate the factorial of a number. [10]

Q2.Write a Python program to count frequency of each character in a given string using user defined function. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which finds all factors of a number. [10]

Q2. Write a Python program to accept string and remove the characters which have odd index values of a given string using user defined function. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to display Fibonacci series 1 to n number. [10]

Q2. Define a class Employee having members – id, name, department, salary. Create a subclass called ―Manager‖ with member bonus. Define methods accept and display in both the classes. Create n objects of the Manager class and display the details of the manager having the maximum total salary (salary+bonus). [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which reverses a string and displays both original and reversed string. [10]

Q2.Write a program to create tuple of n numbers, print the first half values of tuple in one line and the last half values of tuple on next line. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which accepts 10 integers and prints "DUPLICATES" if any of the values entered are duplicates otherwise prints "ALL UNIQUE". [10]

Q3. Write a Python Program to create a Class Circle and Compute the Area and the circumference of the Circle. (use parameterized constructor). [20]

Q3. External Viva [10]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which accepts an integer value 'n' and prints all prime numbers till 'n'. [10]

Q2.Define a class Student having members – rollno, name, age, gender. Create a subclass called ―Test with member marks of 3 subjects. Create three objects of the Test class and display all the details of the student with total marks. [20]

Q4. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to count the number of characters in a string. [10]

Q2. Create a class student having members. Use operator overloading to check the age of two student objects. Also display the who age is greater.

[20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to get a single string from two given strings and swap the first two characters of each string. [10]

Sample String: 'abc', 'xyz'

Expected Output: xycabz

Q2.Read a text file and print all the numbers present in the text file. Also print the size of the file. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a Python program to accept n numbers in list and remove duplicates from a list.[10]

Q2. Define a class Person having members – name, address. Create a subclass called ―Employee with member staffed, salary. Create 'n' objects of the Employee class and display all the details of the Employee.

[20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which finds sum of digits of a number. [10]

Q2. Write a Python script to generate and print a dictionary that contains a number (between 1 and n) in the form (x, x*x).

Sample Dictionary (n = 5)
Expected Output : {1: 1, 2: 4, 3: 9, 4: 16, 5: 25} [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q2. Write a Python program to accept n numbers in list and find maximum and minimum from list. [10]

Q2. Create a class circle having member radius. Use operator overloading to subtract the radius of two circle objects. Also display the area of the circle. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a Python program to accept two lists and merge the two lists into list of tuple. [10]

Q2.Write a program to read the contents of a file in reverse order and display the size of file. [20]

Q3. External Viva [10]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to count the types of files in directory. Display the type and count. i.e. .txt 12, .html 10 etc. [10]

Q2.Define a class Person having members – name, address. Create a subclass called ―Employee with member staffid, salary. Create three objects of the Employee class and display all the details of the Employee. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program which checks whether an element exists within a tuple. [10]

Q2. Create a class person having members. Use operator overloading to check the age of two person objects. Also display the who age is small. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1.Write python program to accept and print string in reverse order using recursion. [10]

Q2. Define a class employee having members – name, address. Create a subclass called—staff with member staffid, salary. Create 'n' objects of the staff class and display all the details of the staff. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a Python program to check if a given key already exists in a dictionary. If key exists replace with another key/value pair. [10]

Q2. Write a Python Program to Create a Class which Performs Basic Calculator Operations. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write python program using an anonymous function to find area of circle, circumference of circle. [10]

Q2. Python Program to Create a Class in which One Method Accepts a String from the User and Another method Prints it. Define a class named Country which has a method called print Nationality. Define subclass named state from Country which has a method called print State. Write a method to print state, country and nationality.

[20]

Q3. External Viva [10]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to accept a number and display its first ten multiples. [10]

Q2. Define a class named Shape and its subclass (Square/Circle). The subclass has an init function which takes an argument (length/radius). Both classes have an area and volumefunction which can print the area and volume of the given shape.
. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to accept 10 numbers display the sum of odd numbers and sum of even numbers. [10]

Q2. Write a program to accept a number 'n', and display the following pattern (Floyd's triangle)n=3

1

2 3

4 5 6 [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a program to check whether input number is divisible by 3 or 5 or both. [10]

Q2. Write a program to read a file convert the lowercase character to uppercase and writethem to another file, display another file.

[20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write python program using an anonymous function to find area of circle, circumference of circle. [10]

Q2. Create a class circle having member radius. Use operator overloading to add the radius of two circle objects. Also display the area of the circle. [20]

Q3. External Viva [05]

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21SBCA245- Programming in Python

Duration: 3Hrs. **Max. Marks: 30**

Q1. Write a python program which accept the word and count the frequency (occurrences) of given word in a file. [10]

Q2. Write Python Program to define a class named Shape and its subclass (Square/Circle). The subclass has an init function which takes an argument (length/radius). Both classes have an area and volume function which can print the area and volume of the shape where Shape's area is 0 by default. [20]

Q3. External Viva [05]