| Total No. of Q | nuestions : 5] SEAT No. : | |
|--------------------------------|--|--|
| P5784 | [Total No. of Pages : 2 | |
| | [6120]-106 | |
| | First Year M.C.A. (Management) | |
| | IT - 21 : PYTHON PROGRAMMING | |
| (2020 Revised) (Semester - II) | | |
| | 1000 | |
| Time: 21/2 Hou | I/Max. Marks : M | |
| | the candidates: | |
| | restions are compulsory. resto the right indicate full marks. | |
| | me suitable data if necessary. | |
| | | |
| Q1) a) Wi | rite a program to create a list of words from the given string which are | |
| les | s than size 'A'. | |
| Ing | out String: "Python programming language has lot of applications in | |
| dat | a analytics". | |
| Inc | out $n=8$ | |
| • | plain the concept of modules and packages with suitable example. [5] | |
| <i>v)</i> 2 <i>n</i> | OR. | |
| -) P | | |
| | plain generators with example. [5] | |
| b) Wr | ite a program to swap two numbers without using temporary variable | |
| acc | ept input from the user. | |
| | 600 | |
| Q2) a) Wh | nat is thread? Write a program that creates two threads. One thread | |
| sho | ould print even numbers from 2 to 8 and the other should print odd | |
| nur | nbers from 1 to 7. [5] | |
| | ite a program to accept an integer number and use try except to catch | |
| the | exception if a floating point number is a large | |
| unc | The second of th | |
|) | OR | |
| | at is thread synchronization? Explain with suitable example. [5] | |
| 1 7 377 | k 7 | |
| b) Wri | te a program that reads a text file and counts the number of lines and | |

| Q3) a) | Write a program to validate strong password using regular expression - specify rules for the strong password. [5] |
|---------------|---|
| b) | Create a class "Bank" having attributes "Bank name" "Branch", "City", "Manager Name" and methods "Change manager name" and "Display details." Wirte a constructor to initialize the instance variables. Write a main program to demonstrate the use of Bank class. [5] |
| | O OR |
| a) | Write a program to find the occurrence and position of the substrings within a string consider user input. [5] |
| b) | Write a program to demonstrate the overriding of the base class method in the derived class. |
| Q4) a) | Write a program using mango DB database to create a "employee". Collection having fields Emp ID, Name, Designation, Mobile, Department. Accept the input from the user to insert the documents. [5] |
| b) | What is string slice? How it is useful. [5] |
| a) | Explain deep copy with suitable example. [5] |
| b) | Write a program using monogo DB database to create a collection "Chess competition" with fields (Player_id, player_name, player_age, player_phone) and display all registrations. [5] |
| Q5) a) | Create pandas dataframe using 2D list and perform following operations. [5] i) Display first 5 rows. |
| | ii) Count missing values in column 2 nd . [5] |
| ь) | Create 3 × 3 numpy array and determine internal |
| \mathcal{L} | OR Courts detaframe using three series having size 10, series are account |
| a) | number, name and balance. [5] |
| b | Draw nie chart using matplot lib and decorate it by adding various elements |
| | use suitable data. [5] |

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