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Seventh Semester B.E. Degree Examination, June/July 2023 Python Application Programming

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. List the rules to declare variable in python and salient features of python. (06 Marks)
- b. Write a python program to find biggest of three numbers accepted from the user. (06 Marks)
- c. Explain concept of type conversion function and math functions in python with examples. (08 Marks)

OR

- 2 a. Explain break and continue statement with example in python. (06 Marks)
- b. How python handles the exceptions? Explain with an example program. (06 Marks)
- c. What are user defined functions? Write a function compute grade that takes a score as its parameter and returns a grade as string.

Score	Grade
≥ 0.9	A
≥ 0.8	B
≥ 0.7	C
≥ 0.6	D
≥ 0.6	F

(08 Marks)

Module-2

- 3 a. Discuss string handling methods in python with examples. (08 Marks)
- b. Write a python program to demonstrate counting, summing and average of elements using loops. (06 Marks)
- c. Write a python program to check whether given string is palindrome or not. (06 Marks)

OR

- 4 a. Explain for loop and while loop and write a program to generate Fibonacci series up to the given limit. (08 Marks)
- b. Write a python program to count the number of occurrences of a word in a given file. (06 Marks)
- c. Write a program to read through a file and look for lines of the form.
X-DSPAM – confidence : 0.8475
When you encounter line that starts with “X – DSPAM confidence” pull apart the line to extract the floating points numbers on the line, count there line and then compute the total of the spam confidence. (06 Marks)

Module-3

- 5 a. What are lists? Describe list methods in python. Write a program to find biggest element in the list. (08 Marks)
- b. How tuples are created in python? Explain different ways of accruing and creating them. (06 Marks)
- c. Write python program to search for lines that start with ‘F’ followed by 2 characters, followed by ‘m’ and print there lines. (06 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 6 a. What is dictionary? Write a python program to count occurrence of words in a file and print the count. (08 Marks)
- b. Explain extracting data using regular expressions implement python program to find for lines having '@' symbol between non blank characters in a file. (08 Marks)
- c. Compare and contrast lists and tuples. (04 Marks)

Module-4

- 7 a. Explain init and str method with an example python program. (10 Marks)
- b. What is Operator overloading? Write python code to overload "+", "-" and "*" operators by providing the methods __add__, __sub__ and __mul__. (06 Marks)
- c. Define class and object. Explain with example. (04 Marks)

OR

- 8 a. What is a pure function? Write a python program to find duration of event if start and end time is given by defining class TIME. (10 Marks)
- b. Write a python program that uses date time module within a class takes birthday as input and points the age and the no of days, hours, minutes and seconds until next birthday. (10 Marks)

Module-5

- 9 a. Demonstrate with the help of python construct
- How to retrieve an image over HTTP
 - How to retrieve web pages with Urllib. (10 Marks)
- b. Write a note on Google Geocoding Web service. Using python supported libraries demonstrate with snippet code. (10 Marks)

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OR

- 10 a. Write a python program for creating employee database, inserting records and selecting employers working in the company. (10 Marks)
- b. Describe creation of database table using database cursor architecture. (10 Marks)

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