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18CS752

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022

Python Application Programming

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. List the features of Python Programming Language. (04 Marks)
- b. How Python handles exceptions? Explain with programming example. (08 Marks)
- c. Write a Python program to find the largest of three numbers. (08 Marks)

OR

- 2 a. Explain the Chained and Nested conditional execution statement along with syntax and flow chart. (08 Marks)
- b. Explain with example, Fruitful and Non – fruitful functions in Python. (06 Marks)
- c. Demonstrate the use of break and continue keyword using a Snippet of code. (06 Marks)

Module-2

- 3 a. Explain Definite and Indefinite loops in Python with example. (06 Marks)
- b. What are String Slices? Explain the Slicing Operator in Python with example. (06 Marks)
- c. Write a Python program to count the frequency of occurrence of character within another string. (08 Marks)

OR

- 4 a. List and explain four built – in string manipulation functions supported by Python. (08 Marks)
- b. Explain with examples read () and write () methods in file. (06 Marks)
- c. Write a Python program to generate and print prime numbers in a given range. (06 Marks)

Module-3

- 5 a. What are Lists? Explain any four. List methods with examples. (06 Marks)
- b. How tuples are created in Python? Explain different ways of creating and accessing them. (06 Marks)
- c. Write a Python program to count the frequency of each of the word in a given file. (08 Marks)

OR

- 6 a. Explain Dictionaries in Python with examples. (08 Marks)
- b. Explain the need of regular expressions in Python with example. (06 Marks)
- c. Implement a Python program using Lists to store and display the average of 'N' integers accepted from the user. (06 Marks)

Module-4

- 7 a. What is a Class? Explain how class and object are created in Python. (06 Marks)
- b. With example, explain Shallow copy and Deep copy methods in class. (06 Marks)
- c. Write a program to add two point objects by overloading + operator. Overload __str__ () to display point as a ordered pair. (08 Marks)

OR

1 of 2

- 8 a. Explain `__init__()` method with example. (08 Marks)
b. Explain Pure functions and Modifiers with example. (08 Marks)
c. Explain type based dispatch with an example. (04 Marks)

Module-5

- 9 a. What is Socket? Explain how Socket connection can be established over TCP/IP connection and retrieve the data from a web page. (08 Marks)
b. Explain the significance of XML over the web development. Illustrate with an example. (06 Marks)
c. Write a program to retrieve data from a webpage using `urllib` and to count the number of words in it. (06 Marks)

OR

- 10 a. What is JSON? Illustrate the concept of parsing JSON Python code. (06 Marks)
b. Define Cursor. Explain `connect`, `execute` and `close` commands of databases with a suitable example. (08 Marks)
c. Write a program to extract various parts of anchor tag using `BeautifulSoup`. (06 Marks)
