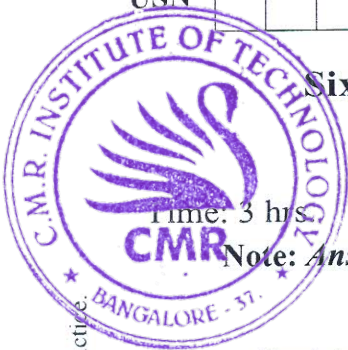


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Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 Python Application Programming

Time: 3 hrs

Max. Marks: 80

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

Module-1

- 1 a. Explain various building blocks of a program. (05 Marks)
- b. Explain values and types in python. (05 Marks)
- c. Write a program to prompt the user for hours and Rate per hour to compute gross pay (gross pay = hours * rate). (06 Marks)

OR

- 2 a. Explain the following with syntax, flowchart and example
 - i) Chained conditions (04 Marks)
 - ii) Nested conditions
- b. Explain the following with example
 - i) Type conversion functions (09 Marks)
 - ii) Math functions
 - iii) Random functions (03 Marks)
- c. Write a note on catching an exception in python.

Module-2

- 3 a. Explain the use of break and continue in while loop with example. (04 Marks)
- b. Write a python script to find the largest value in a list or sequence using for loop. (06 Marks)
- c. Explain string indexing and traversing through string with a loop. (06 Marks)

OR

- 4 a. Discuss various string methods with example. (06 Marks)
- b. Write a python script to count number of lines in a file entered by users. (05 Marks)
- c. Write a python script to print all the lines which starts with word "python" from a file. (05 Marks)

Module-3

- 5 a. Discuss various list methods. (06 Marks)
- b. Explain the following operators
 - i) in ii) not in iii) is iv) is not. (04 Marks)
- c. Write a python script to print frequency of each word in a given file. (06 Marks)

OR

- 6 a. Write a python script to print 10 most common words from given text file. (08 Marks)
- b. Explain search and find all methods from re module. (08 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.

Module-4

- 7 a. Explain classes in python with example. (04 Marks)
b. Write a Rectangle class and show objects are mutable with example. (04 Marks)
c. Write a definition for a class named circle with attributes 'center' and 'radius' where center is a point object and radius is a number. Instantiate a circle object that represents a circle with its center at (150, 100) and radius 75. Write a function named "area_of_circle" that calculate and returns area of a given circle. (08 Marks)

OR

- 8 a. Explain 'pure functions' with example. (05 Marks)
b. Explain the importance of '_int_' method in python with example. (05 Marks)
c. Discuss Type – Based dispatch with example. (06 Marks)

Module-5

- 9 a. What is a Socket? Explain different methods of socket. (08 Marks)
b. Explain file retrieving using "urllib" with example and print the frequency of words. (08 Marks)

OR

- 10 a. What is XML? Explain XML parsing with example. (08 Marks)
b. Explain Cursor and its methods with example in Database. (08 Marks)
