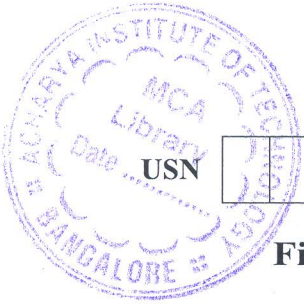


CBCS SCHEME



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18AI52

Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024

Python Programming

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain data types in python programming language with a example and demonstrate print(), input() (06 Marks)
- b. Explain with an example :
 - i) String concatenation
 - ii) String Replication
 - iii) Storing values in variable
 - iv) Rules to define a variable. (08 Marks)
- c. Write a python program to check whether a given number is odd or even. (06 Marks)

OR

- 2 a. Demonstrate with an example str(), int() and len() functions. (06 Marks)
- b. With the help of flowchart explain if-statement and elif-statement. (08 Marks)
- c. What is exception handling? How exception are handled in python? Write a python program with exception handling code to solve divide – by – zero error situation. (06 Marks)

Module-2

- 3 a. What is list? Explain append(), insert() and remove() methods with example. (08 Marks)
- b. Explain references with an example. (06 Marks)
- c. What is the differences between list and Tuples? Explain with example method of converting types with list () and Tuples() functions. (06 Marks)

OR

- 4 a. Discuss get(), item() keys() and values() of dictionary methods in python with example. (08 Marks)
- b. Write a program to swap case of a given string input Java o/p jAVA. (06 Marks)
- c. Explain the various string methods for following operation with example :
 - i) Upper()
 - ii) Low()
 - iii) islower()(06 Marks)

Module-3

- 5 a. Write a program to find an American phone number (example 415-555-4242) in a given string using regular expressions. (06 Marks)
- b. With a suitable python code explain :
 - i) Greedy pattern matching
 - ii) Non-greedy pattern matching. (06 Marks)
- c. What are regular expressions? Describe question mark, star, plus Regex symbols with suitable Python code snippet. (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.

OR

- 6 a. Explain in detail with code snippet
i) Current working directory (08 Marks)
ii) Home directory. (08 Marks)
b. With code snippet explain reading the content of file and writing to files. (08 Marks)
c. Explain absolute path and relative path. (04 Marks)

Module-4

- 7 a. What is a class? How to define class in python? How to initiate a class and how class members are accessed. (06 Marks)
b. Explain init and __str__ method with an example python snippet code. (08 Marks)
c. Illustrate the concept of pure function with python code. (06 Marks)

OR

- 8 a. Explain the concept of modifier with python code. (06 Marks)
b. Illustrate the concept of operator overloading. (07 Marks)
c. Illustrate the concept of inheritance. (07 Marks)

Module-5

- 9 a. How do we download a file from web and save it to hard drive using request module. (08 Marks)
b. Explain Selenium's web drive methods for finding elements. (06 Marks)
c. Explain in detail how to parse HTML with the beautiful soap. (06 Marks)

OR

- 10 a. Explain the concept of :
i) Extracting text from PDF (08 Marks)
ii) Decrypting PDF. (06 Marks)
b. What are the advantage of CSV files? Explain reader object with python code. (06 Marks)
c. What is JSON module? Explain loads() and dumps() functions of JSON. (06 Marks)
