

CBCS SCHEME

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18AI52

Fifth Semester B.E. Degree Examination, Dec.2024/Jan.2025

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 various Typecasting function used in python with an example. (10 Marks)
- b. Explain variable. Describe the rules defined for valid and invalid variables. (10 Marks)

OR

- 2 a. Discuss relational operator, bitwise operator with an example. (10 Marks)
- b. Write a program to find sum of first n natural numbers (10 Marks)

Module-2

- 3 a. Explain the Pretty printing with an example. (10 Marks)
- b. Explain list, tuple with an example. (10 Marks)

OR

- 4 a. Explain any three string methods with an example. (10 Marks)
- b. Explain indexing and slicing in strings with example. (10 Marks)

Module-3

- 5 a. What are regular expression? Describe question mark, star, plus-and dot Regex symbols with suitable python code snippet. (09 Marks)
- b. With example code explain re.IGNORECASE, re.DOTALL with suitable example. (06 Marks)
- c. Write a program that reads a string with five characters which starts with 'a' and ends with 'z'. Print search successful if pattern matches string. (05 Marks)

OR

- 6 a. With a code snippet, explain saving variables using the shelve module and PPrint Pformat() functions. (06 Marks)
- b. Explain the steps involved in file reading and writing process with suitable examples. (08 Marks)
- c. Write a python program to count the number of occurrences of a given word in a file. (06 Marks)

Module-4

- 7 a. Explain deep copy and shallow copy with example. (10 Marks)
- b. Write a python script to compute the end time of a movie by specifying the start time and duration. (10 Marks)

OR

- 8 a. Explain in detail, __str__ method. (10 Marks)
- b. Write a python script to highlight operator overloading. (10 Marks)

Module-5

- 9 a. Explain the process for downloading and saving a file. (10 Marks)
b. Write a simple script to automatically launch the map in the browser using the contents of clipboard. (10 Marks)

OR

- 10 a. Explain the differences between web browser, request bs4 and selenium modules. (10 Marks)
b. If you want to retrieve the result of a cell's formula instead of cell's formula itself what must you do first? (10 Marks)
