

CSE 203

B. TECH. IIIrd SEMESTER EXAMINATION, 2025-26

BACHELOR OF TECHNOLOGY

(CSE)

Python with Linux

Time : Three Hours]

[Maximum Marks : 75

Note: There are **three** sections (A, B and C) and candidate has to attempt questions from all sections. Marks are indicated against each section.

Section-A

1. Attempt all parts of the following : $5 \times 3 = 15$
 - (a) Describe the purpose of the `split()` method in string manipulation.
 - (b) How we print the character of a given ASCII value in python ?
 - (c) Explain the concept of dynamic typing in python with an example.
 - (d) Write a python program to remove duplicates from a list and print the Resulting List.
 - (e) Explain how lambda functions can be used within a list comprehension.

Section-B

Note: Attempt **all** questions :

4×5=20

2. (a) Explain for and while loops used in python with appropriate example.

Or

- (b) Write a python program that takes two strings and checks common letters in both the strings.
3. (a) Describe the concept of list comprehension with a suitable example.

Or

- (b) Define anonymous function in python with suitable example.
4. (a) Write a python code to swap the first and last digit of a given number.

Or

- (b) Explain dictionary in python with suitable example.
5. (a) Describe about three types of transfer statements break, continue and pass.

Or

- (b) Describe conditional statement in python with suitable example.

Section-C

Note: Attempt any **two** questions :-

2×20=40

6. (a) How user defined exceptions are handled in python ? Explain with a suitable example.

 (b) Explain different types of inheritance available in python. Describe how super class constructors are overridden.
7. (a) Write a python program to demonstrate the use of multiple user defined exception blocks.

 (b) Write a python program to handle that exception that occurs when accessing an index out of range of a list.
8. (a) Define scope of a variable in a function. Differentiate between local and global variable with examples.

(b) Write a python program to create a pie chart with a title of the popularity of programming languages. Sample data: programming languages Java, Python, PHP, Java Script, C#, C++ popularity: 22.7, 17.6, 8.8, 8, 7.7, 6.7

9. (a) Differentiate between class attributes and instance attributes with examples.
- (b) Discuss different mode of file with suitable example.

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