

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**Bachelor of Computer Application (FYUP) 4th Semester
(2056)**

PYTHON PROGRAMMING

Paper : BCA-DSC-4 (Min)-405

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— Attempt five questions in all, selecting ONE question each from UNIT-I to UNIT-IV. UNIT-V is compulsory.

UNIT - I

1. Explain various operators used in Python with examples. 9
2. Define String. Explain various string inbuilt functions with suitable examples. 9

UNIT - II

3. What is a list in Python? How is it different from a tuple? Write a program to create a list and append an element to a list. 9
4. Explain dictionary in Python. Explain various dictionary methods used in Python. Write a Python program to create a dictionary with five key-value pairs. 9

UNIT - III

5. How do you define a function in Python? Explain various types of arguments used in functions with suitable examples. 9

6. How are class and objects created in Python? Explain the role of `__init__()` method in a class with example. 9

UNIT - IV

7. Define Exception. Explain the various blocks used in Python to handle the exception. Write a Python program to handle the `ZeroDivisionError` exception. 9
8. Explain the concept of file handling in Python. Explain the steps involved in opening, reading, writing, and closing files in Python. 9

UNIT - V

9. (a) Explain the role of 'self' variable. 2
- (b) What are mutable and immutable data types? 2
- (c) How if-statement can be used with lists? 2
- (d) Write the difference between break and continue. 3