

QP CODE: D4BCA2402	(Pages: 2)	Reg. No :
		Name :
FOURTH SEMESTER FYUGP EXAMINATION, APRIL 2026 Discipline Specific Core (DSC) Courses - Major BCA4CJ206 : PYTHON PROGRAMMING (Credits: 4)		
Time: 2 Hours	Maximum Marks: 70	
Section A		
Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)		
1. Identify and list the different tokens used in the following Python statement: <code>sum = x * 10</code>	BL3	CO1, CO2
2. State any three features of anonymous (lambda) functions.	BL1	CO1, CO3
3. Explain the concept of string traversal in Python.	BL2	CO4
4. Define a DataFrame. How is it different from a Series?	BL2	CO5
5. Differentiate between operator precedence and associativity.	BL2	CO1
6. What is a package in Python? How is it different from a module?	BL2	CO1, CO3
7. Explain why dictionaries are considered unordered collections in Python.	BL2	CO4
8. What is a line plot? When is it commonly used?	BL2	CO5, CO6
9. What are vectorized operations in NumPy? Why are they important?	BL3	CO5
10. What is the join() method? How does it work on strings?	BL2	CO4
Section B		
Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)		
11. Write Python program using appropriate built-in functions to: a) Find the length of a string b) Display the data type of a variable	BL3	CO1, CO2
12. Describe how lists store multiple values and how elements are accessed using indexing.	BL2	CO4
(PTO)		

13.	Compare append(), extend(), and insert() methods. Discuss in which situations each should be used.	BL4	CO4
14.	Explain matplotlib and its features.	BL2	CO5, CO6
15.	Explain looping structures in Python. Describe the need for loops in program execution.	BL2	CO1
16.	Differentiate between positional arguments and keyword arguments in Python.	BL2	CO1, CO2, CO3
17.	Compare pop(), popitem(), and clear() methods. Discuss in which situations each method is preferable.	BL4	CO4
18.	Explain the applications of Numpy arrays.	BL2	CO5

Section C

Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)

19.	Describe in detail the different types of decision making statements used in Python.	BL2	CO1, CO2
20.	Explain the concept of functions in Python. Discuss their role in modular programming and code reusability.	BL2	CO1, CO2, CO3

CO : Course Outcome

BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)