

13. How can you create a tuple with a single element?
 a) (element,) b) [element] c) (element) d) {element}
14. How can you access all keys in a dictionary?
 a) dict1.values() b) dict1.getkeys() c) dict1.items() d) dict1.keys()
15. What is an example of sensitive data?
 a) Social media posts b) Public email address
 c) Biometric information d) Internet cookies

**II. Fill in the blanks choosing the appropriate word(s) from those given in brackets.
 (index, key, nested, object, loop, range(), modular)**

16. In Python, everything is treated as _____.
17. The _____ function in Python generates a sequence of numbers.
18. The process of dividing a computer program into separate independent blocks of code is known as _____ programming.
19. A list within another list is called _____ list.
20. Elements of a tuple can be accessed using _____ values.

Part-B

III. Answer any FOUR questions. Each question carries TWO marks.

[4 x 2 = 8]

21. Write a short note on cache memory.
22. What does function ID () represent? Give an example.
23. Explain for loop with syntax and example.
24. Explain default parameters with example.
25. Explain any two operations performed on tuples.
26. Explain violation of IPR.
27. Define: a) Digital Society b) Netizen

Part-C

IV. Answer any FOUR questions. Each question carries THREE marks.

[4 x 3 = 12]

28. Explain the types of buses.
29. Explain the concept of Unicode.
30. Mention different types of Robots.
31. Write pseudo code to find greatest of two numbers.
32. Define: a) Testing b) Syntax c) Dry run
33. What is membership operator? Explain the types with examples.
34. Explain the following methods of string manipulation with example.
 a) join() b) split() c) strip()

Part-D

V. Answer any FOUR questions. Each question carries FIVE marks.

[4 x 5 = 20]

35. Explain briefly the evolution of computer.
36. What is operating system? Explain the functions of operating system.
37. Define Block chain. State its applications.
38. What is problem solving? Explain the stages involved in problem solving?
39. What is an identifier? Write the rules for naming an identifier.
40. Explain any 5 commonly used built in functions in python with example.
41. Explain any five list methods in Python.

VI. Answer any TWO questions. Each question carries FIVE marks.

[2 x 5 = 10]

42. Convert: $BEAD_{(16)} = ?_{(10)} = ?_{(2)} = ?_{(8)}$

Solve the following:

- a) $156_{(10)} = ?_{(2)}$
 b) $110110_{(2)} = ?_{(8)}$
 c) $7A_{(16)} = ?_{(10)}$

43. Predict the output of the following python code:

a) x =20 y=6 print(x%y)	b) a=7 b=3 a=b print(a)	c) p=False q=True print(p or q)	d) x=10 y=5 print(x>y)	e) m=4 n=2 print(m**n)
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44. Write a program to find the grade of a student using if...elif statement
