

AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sessional Test

Program: B.Tech
 Session: 2025-26
 Subject: Python Programming
 Max. Marks: 50

Semester: III
 Section: IT, CSIT, ECE, CE, ME, EN
 Subject Code: BCC 302
 Time: 2 Hours

OBE Remarks:

Q.No	1	2	3	4	5	6	7	8	9	10	11	12
CO No.	CO1	CO2	CO3	CO1	CO1	CO1	CO3	CO2	CO2	CO1	CO2	CO1
Bloom's Level* (L1 to L6)	L2	L2	L4	L6	L2	L2	L2	L6	L6	L2	L3	L2
Weightage CO1: 21.5				Weightage CO2: 21.5				Weightage CO3: 7				

*Bloom's Level: L1: Remember, L2: Understand, L3: Apply, L4: Analyze, L5: Evaluate, L6: Create

Note: Answer all the sections with all the questions

Section-A

(2*5=10)

1. Explain the membership operator with example.
2. Compare islower() and isupper() string methods with an example.
3. for i in range(10):
 if i==5:
 continue
 print(i)

4. Write a python program to check the number is even or odd.
5. Explain Python's indentation rule with an example. Why is indentation important in Python?

Section-B

(5*5=25)

6. Write the data type classification in detail with example.
7. Write the String data structure of python. Also discuss the 5 inbuilt methods of string with suitable example.
8. Create a python program to check if a given number is Palindrome or not.
9. Write a Python program to create a simple calculator, enter numbers from the user and display output
10. Explain type conversion in python with examples.

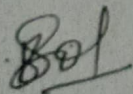
Section-C

(7.5*2=15)

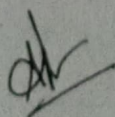
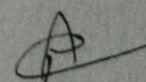
11. Explain range function with example. Also write a Python program to construct the following pattern:

A
 BC
 DEF
 GHIJ
 KLMNO

12. Explain operator and all its types with examples. Also explain the role of precedence and associativity in an expression.



Faculty Sign

HoD Sign