ADITYA DEGREE COLLEGES
KAKINADA
Python for Data Science (AI Major)
II Sem - MID Exam - 1

Marks :60M
Time : 3 hr

SECTION - A

I Answer any FIVE of the Following.   **5 X 4 = 20 M**

1. What are literal constants in Python? Explain with examples.

2. Explain different data types available in Python.

3. Explain the different types of conditional statements in Python with examples.

4. What is the difference between break, continue, and pass statements?

5. Explain the concept of recursive functions in Python with an example.

6. Write a Python program to check whether a given number is even or odd using an if-else statement.

7. What are nested loops? Write a Python program to print a multiplication table using nested loops.

8. What is an anonymous function in Python? Explain with an example.

SECTION - B

II   Answer The Following Questions.   **4 X 10 = 40 M**

9. a)   Explain different types of operators in Python with examples.

(or)

   b)   What are loops in Python? Explain for and while loops with examples.

10. a)   What are functions in Python? Explain function definition and calling with examples.

(or)

   b)   What is the difference between lambda functions and regular functions? Explain with examples.

11. a)   Explain Python modules. How do you create and import a module? Give an example.

(or)

   b)   What are packages in Python? Explain the steps to create and use a package.

12. a)   Explain conditional branching statements (if, if-else, if-elif-else) in Python with examples.

(or)

   b)   What are standard library modules in Python? List and explain any four standard modules with their usage.