

KEONICS COMPUTER CENTER, HUBLI				
Artificial Intelligence with Python				
Total Marks:	50	Test – 2	Date:	

A. Answer the following for two marks. (Any 6)

Marks (2X6)=12

1. What is a function in Python? Give an example.
2. What is the difference between a local variable and a global variable? Give one example.
3. What is the difference between a function definition and a function call?
4. What is a list in Python? Give an example.
5. How do you import modules in a Python script?
6. How do you define and use functions in a Python script?
7. What is a class in Python, How do you define a class in Python?

B. Answer the following (3 Marks each) (Answer any 6)

Marks (3X6)=18

1. Explain what is the difference between a function definition and a function call with example?
2. What is the difference between append() and extend() methods in lists?
3. How do you create a tuple in python and give an example?
4. How do you create a dictionary in python & how do you access values in a dictionary?
5. What are attributes and methods in a class? What is the purpose of the self parameter in a class method?
6. How do you define a constructor in a class? Demonstrate how you initialize object attributes via constructors.
7. What is inheritance in Python classes? How do you override a method in a child class give an example?

Python Programming Practical

C. Answer Any 4 in following with python programs with outputs. (5 Marks each)

Marks (5X4)=20

1. Write a program to Constructing a list of even numbers from a list of numbers in a csv sheet using list comprehension.
2. Write a python & create a class named Employee with attributes name, position, and salary. Write a method to calculate the annual salary of the employee.
3. Write a program that reads a CSV file and extracts specific columns from it, also handles a file-not-found error and prints a custom error message.
4. Write a program that uses a lambda expression to square each element in a list.
5. Write a python write a program that reads a text file and prints its content to the console and demonstrate append mode.

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