

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
MGU-UGP (HONOURS)
THIRD SEMESTER EXAMINATION
(2025 ADMISION ONWARDS)

MG3DSEMATA09: ARTIFICIAL INTELLIGENCE WITH PYTHON

Duration: 2 hrs

Maximum Marks: 70

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

Part A

Answer any five questions. Each question carries 2 marks

1. What is PVM?
2. What are Python's core object types?
3. What is mean by immutability?
4. What is mean by Aliasing?
5. Compare between list and tuple.
6. What is mean by List comprehensions?
7. What is mean by Multiple target assignment?
8. Define functions in Python.
9. Explain Numpy
10. Explain Pandas

Part B

Answer any Four questions. Each question carries 6 marks

11. Explain string operations in Python.
12. Explain (i) CPython (ii) Jython.
13. What is mean by tuples? Explain tuple operations.
14. Explain basic dictionary operations.
15. Explain while loop and for loop in Python.
16. Explain plotting of graph in Python with code.

Part C

Answer any Two questions. Each question carries 15 marks

17. Explain the advantages of Python Programming.
18. Explain the operations in (i) List (ii) Dictionaries (iii) Tuples
19. What is mean by assignment statement in Python? Give different properties of assignment statements.
20. What is mean by packages in Python Programming. Explain any three packages in Python.