

Open Elective-II : Python Programming

P. Pages : 1

Time : Three Hours



PSM/KW/23/2884

Max. Marks : 70

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.

1. a) Explain built-in data types of python. 7
b) What are the key features of python? 7

OR
2. a) Write a python program to print Fibonacci series. 7
b) Explain usage of continue, break & pass keyword in python. 7
3. a) Write a python program to implement the concept of inheritance. 7
b) How operator overloading can be implemented in python? Give an example. 7

OR
4. a) Explain built- in class attributes in a python class. 7
b) What is polymorphism? Write a program to demonstrate the concept of polymorphism. 7
5. a) Summerize the characteristics of Numpy, Pandas, Scikit- learn & matplotlib libraries along with their usage in brief. 7
b) Compare the numpy & pandas on the basis of their characteristics & usage. 7

OR
6. a) Explain the concept of Data visualization with proper example. 7
b) What is data manipulation with Numpy & Pandas? Explain with proper example. 7
7. a) Explain the concept of web development with Flask with proper example. 7
b) What is Flask Framework? Explain in brief. 7

OR
8. a) How to create web applications using flask give an appropriate example. 7
b) Explain the concept of flask extensions for Database integration, in brief. 7
9. a) Explain the concept of machine learning with python in details. 7
b) Explain the concept of scikit- Learn with proper example. 7

OR
10. a) What is supervised and unsupervised learning? Explain in details. 7
b) What is classification & regression algorithms? Give the proper example. 7
