B.Tech. (Computer Science & Engineering) Seventh Semester (C.B.C.S.)

Open Elective-II : Python Programming

P. Pages : 1

PSM/KW/23/2884

Time : Three Hours

* 2 6 0 5 *

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

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