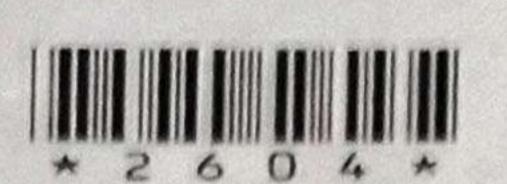
B.Tech. (Artificial Intelligence & Data Science / Artificial Intelligence) Seventh Semester (C.B.C.S.) Open Elective-II: Python Programming

P. Pages: 2 Time: Three Hours



PSM/KW/23/3532/3532A

Max. Marks: 70

	Note	es: 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)	What are the different loop control statements available in Python? Explain with suitable examples.	8
	b)	Differentiate between method overloading and method overriding.	6
		OR	
2.	a)	Explain in brief different types of operators in Python.	8
	b)	Write a program to display Fibonacci sequence for n terms.	6
3.	a)	Write short note on any three.	6
		i) Inheritance ii) Encapsulation	
		iii) Polymorphism iv) Abstraction	
	b)	What is mean by inheritance and explain different types of inheritance.	8
		OR	
4.	a),	What is the lambda function? Write the characteristics of a lambda function. Explain the same with an example.	6
		Write Python program to calculate area and perimeter of different Shapes using polymorphism.	8
5.	a)	Write difference between Pandas series and Numpy arrays.	6
	b)/	Using string slicing operation write python program to reverse each word in a given string (eg: input: "hello how are you", output: "Olleh who era uoy").	8
		OR	
6.	a)	How can you create a pie chart in Matplotlib explain with example?	7
		Compare and contrast Excel and CSV files.	7
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7.	a)	What are the advantages of flask over Django.	6
		Explain the following commands.	
		i) App.run(host, port, debug, options)	
		ii) @app.route('/home')	4
	c)	ii) @app.route('nome') What is the procedure for database connection requests in Flask? (Give the instructions).	
		OR	4
8.	a)	Differentiate between GET and POST method.	6
	b)/	Differentiate between GEV and Design a code to print the table of 10 by Embedding python statements in HTML.	4
	c)	Describe Flask memory management in short?	5
9.	a)	What are the various approaches of Machine learning.	5
	b)	Differentiate between Supervised and Unsupervised learning.	4
	(c)	What does the "fit()" method in scikit-learn do?	
	-,	OR	
10.	a)	Explain any one regression algorithm.	7
		i) Simple Linear Regression.	
		ii) Support vector regression.	
	b)	Differentiate between regression and classification algorithms.	
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