

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

DEPARTMENT: Artificial Intelligence and Data Science

CAT-II (2023-24) Odd Sem

SEMESTER: B.Tech.VII

DATE : 19/10/2023

SUBJECT: Python Programming

SUBJECT CODE: BTECH_AI&DS-704T

DURATION: 1 Hr 30 Min

MAX MARKS: 35

Note:

- 1) All questions are Compulsory.
- 2) All questions carry marks as indicated.
- 3) Assume suitable data whenever necessary.

Que. No.	Question	Marks	CO	BL
Que 1. A	I. NumPy arrays can be a) Indexed b) Sliced c) Iterated d) All of the mentioned	1	CO3	1
	II. What is the purpose of NumPy in Python? a) numeric calculation b) Scientific computing c) Both a & b d) None of the mentioned	1	CO3	1
	B Write a programme to draw a line in a diagram from position (0,0) to position (6,250) in Python.	5	CO3	2
	C Interpret Data Visualization with Seaborns in Python.	7	CO3	2
OR				
Que 2. A	I. Amongst which of the following is / are used to analyze the data in pandas. a) DataFrame b) Series c) a & b d) None	1	CO3	1
	II. A series object is size mutable. a) True b) False	1	CO3	1
	B Differentiate between Numpy and Pandas	5	CO3	2
	C Justify Data Visualization with Matplotlib in Python.	7	CO3	3
Que 3. A	I. How to add the mailing feature in the Flask Application? a) Pip install Flask b) Pip install Flask-Mail c) install Flask Mail d) pip Flask-Mail	1	CO4	1
	II. Flask is a a) Miniframework b) Microframework c) Nanoframework d) Paraframework	1	CO4	1
	B State the Benefit of using Flask framework.	5	CO4	1

c	Differenece between Django and Flask .	7	CO4	2
	OR			
Que 4. A	I. Who developed Flask? a) <input checked="" type="checkbox"/> Armin Ronacher b) James Ghosling c) Denis Richey d) All of the mentioned	1	CO4	1
	II. Flask is a framework for _____. a) Mobile development b) <input checked="" type="checkbox"/> Web developement c) Cloud Developement d) none of the mentioned	1	CO4	1
B	What is flask framework and explain in details.	5	CO4	2
C	Interpret Flask Extension for database integration Concept in Python.	7	CO4	2
Que 5. A	I. Machine Learning is subset of which of the following? a) <input checked="" type="checkbox"/> Artificial Intelligence b) Deep Learning c) Data Learning d) None	1	CO5	1
	II. which of the following is the type of Regression Algorithms. a) Linear b) Logistic c) Polynomial d) <input checked="" type="checkbox"/> All of the above	1	CO5	1
B	Distinguish between Supervised And Unsupervised learning.	5	CO5	2
	OR			
Que 6. A	A _____ problem is when the output variable is a category a) <input checked="" type="checkbox"/> Classification b) Regression c) Clustering d) All of the mentioned	1	CO5	1
	II. In what type of Machine Learning Labeled dataset used a) <input checked="" type="checkbox"/> Supervised learning b) Unsupervised c) Reinforcement d) none of the mentioned	1	CO5	1
B	Justify Regression Algorithms in Python	5	CO5	2