Roll	No.		Total No. of Pages : 02
Total No. of Questions : 09			
MCA (Sem4) MACHINE LEARNING AND DATA ANALYTICS USING PYTHON Subject Code : PGCA-1976 M.Code : 91855 Date of Examination : 22-12-2022			
Time : 3 Hrs. Max. Marks : 7			Max. Marks : 70
 INSTRUCTIONS TO CANDIDATES : 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each. 2. SECTION - B & C have FOUR questions each. 3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each. 4. Select atleast TWO questions from SECTION - B & C. 			
SECTION-A			
1.	Write short notes on :		
	a) Supervised Learning		
	b) Linear Classification	S	
	c) Decision Tree Out		
	d) Naive Bayes		
	e) Python Modules		
	f) Python Arrays		
	9) Data Frames		

- h) Subplot
- i) Scatter
- j) Random Forest

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SECTION-B

- 2. Explain Principal Component Analysis taking any real world application as example.
- 3. What is the difference between Regression and Classification? Explain logistic regression.
- 4. Explain K nearest neighbour clustering technique. What are its advantages and disadvantages?
- 5. Explain Reinforcement Learning. Discuss the differences between reinforcement learning and supervised learning.

SECTION-C

- 6. Compute all possible prices of flooring that can have lengths of 2, 4, 6 and 8 meters and widths of 1, 1.5 and 2 meters if the flooring costs \$32.19 per square meter. Store the result in a 2D array. The lengths should increase from top to bottom and widths should increase from left to right.
- 7. Explain python strings, lists, dictionaries and tuples in detail.
- 8. Write a Pandas program to create Data Frames that contains random values, contains missing values, contains date time values and contains mixed values.
- 9. Explain various matpletib concepts such as line, labels; grid, subplot, scatter and bars.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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