

Sem: Oct-2024									
Maximum Marks: 50 Examination: End Ex	xam Date: 19	Oct. 2024 Duration: 2.5hrs							
Programme code: 18	Class: FY	Semester: I							
Programme: MBA for working executive		Batch-3							
(program code-18)									
College: K. J. Somaiya Institute of Management	Name of the dep	partment/Section/Center:							
	Data Science &	Гесhnology							
Course Code: 117P18C104	Name of the Co	urse: Data Science Using							
	Python								
Instructions: All questions are compulsory.									

- The figures to the right indicate full marks.

Question No.											Max. Marks
Q1.	Write a Python script to create a data frame using a dictionary								(10)		
	Name	Region	Sales	Expense							
	Markus	East	50000	42000							
	Peter	Nort	52000	43000							
	James	East	90000	50000							
	John	South	34000	44000							
	Luke	West	42000	38000							
Q2.	a. C	Name		occupation of the state of the	\longrightarrow	ot-					(06)
		Name	Age (Occupation	on						
		Beena	24 P	ragramm	er						
		Reena	25 A	nalyst							
		Geeta	23 I	D evelopei	:						
		Seema	27 N	Manager							
		Reema	25 P	rogramm	er						
	b. Define a slogan as "Hum honge Kamayab". Write code for displaying all three words separately.										(04)
	unee words separately.										
Q3.	Consider	the below	mentioned	data-							(10)
Q3.	Consider	the below	mentioned	data-							(10)

	Name	Year	State	Age	Calc_Final		
	Shubhar		MH	22	60		
	Raj	1	HP	27	78		
	Sumit	2	OR	24	46 90		
	John		RJ	23 25	45		
	Sharique Riddhi		OR	25	58		
	Reema		UP	26			
	Asha		CG	24	 		
Q4.	b. D. c. D. d. D. e. H. f. G. Create a l. 12000, 3. a. Find b. If th print c. Acce	isplay in isplay fir isplay the andle emet the data list for the 1000, 150 the total is a "You, nept new v	formatic rst and late count of apty numerate in pro- e follow 2000, 2000 using for alled it.'	ast Six record Null valueric place per shape ring data of 000, 56000 or loop an 1,00,00 ring the cord of 1,00 ring the co	the DataFrame. cords.	values). 1 –	(10)
	e. Print	t all the e	lements	of the list	t using for loop	0.	
Q5.	Create th	e followi	ng csy f	ile using l	list–		(10)
Qu.		Name		Income			(10)
	Di	ya Nayak	27	70000			
	Shravan	Omayya	29	90000			
	Shivan	n Pandey	29	61000			
	Bhakti	Paradkar	28	60000			
	Omka	ar Pashte	42	150000			
	 a. Draw Histogram of Age and Income attribute. b. Draw Scatter Plot of Age vs Income with proper label and title. c. Draw line graph of Age and Income attribute. d. Show another chart with '' dotted line. 						
					OR		
	Consider	the follo	wing da	taset and	perform the fo	llowing exploratory analysis-	(10)

P_ld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Fare
1	0	3	Mr. Owen Harris	М	22	1	0	7.25
								71.283
2	1	1	Mrs. John Bradley	F	38	1	0	3
3	1	3	Miss. Laina	F	26	0	0	7.925
			Mrs. Jacques					
4	1	1	Heath	F	35	1	0	53.1
			Mr. William	М				
5	0	3	Henry		35	0	0	8.05
6	0	3	Moran, Mr. James	М		0	0	8.4583
				М				51.862
7	0	1	Mr. Timothy J		54	0	0	5
			Master. Gosta	М				
8	0	3	Leonard		2	3	1	21.075
								11.133
9	1	3	Mrs. Oscar W	F	27	0	2	3
								30.070
10	1	2	Mrs. Nicholas	F	14	1	0	8

- Read this dataset as a dataframe. a.
- b.
- c.
- d.
- Explore the number of rows & columns.

 Display information about the DataFrame.

 Draw Histogram of Fare attribute with proper display of bins.

 Draw Scatter Plot of Age vs Fare with proper label and title. e.