SEM II

PRN:		Course Code :	MCA102

First Year M.C.A. End Semester Examination Winter 2022

Data Analytics

Day and Date: Tuesday ,13-12-2022 Max Marks: **100**

Time : 10:30 AM - 1:30 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Illustrate Data analytics Life Cycle with a neat diagram.	08	L3	1
	b)	Explain Big Data, Types of Big Data.	08	L2	1
		OR			
	b)	Distinguish Business Intelligence and Data Science	08	L4	1
Q.2		**Attempt the following**			
	a)	Explain Characteristics of Big Data	08	L5	1
	b)	Explain Big Data Technologies.	08	L3	1
		OR			
	b)	Explain Big Data Architecture.	08	L3	1
Q.3		**Attempt any two from the following**			
	a)	Elaborate Data warehouse architecture with neat diagram.	08	L2	2
	b)	Illustrate importance of Big Data.	08	L2	2
	c)	Evaluate regression equation of Y on X from the following data:	08	L5	2

X	:	10	12	16	11	15	14	20
Y	:	15	18	23	14	20	17	25

Q.4		**Attempt any two from the following**				
	a)	Illustrate Data warehouse Design with Star Schema.	08	L3	3	
	b)	Illustrate Data Mining.	08	L3	3	
	c)	Illustrate Overview of Scrum. Explain terms used in Scrum.	08	L2	3	
Q.5		**Attempt any Two of the following**				
	a)	Explain Data Visualization and Techniques.	09	L2	3	
	b)	Distinguish OLTP & OLAP.	09	L4	3	
	c)	Evaluate K-mean clustering for the following data sets for two clusters	09	L5	3	

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Sample No.	X	Y
1	185	72
2	170	56
3	168	60
4	179	68
5	182	72
6	188	77

Q.6 **Attempt any Two of the following**

a)	Elaborate BI with Decision types and skills.	09	L3	4
b)	Distinguish Linear Regression and Logistic Regression.	09	L4	4
c)	Illustrate Data warehouse Development approaches.	09	L2	4

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