Shri Shankaracharya Institute of Professional Management & Technology Department of Information Technology

Class Test – I

Session- Jan-Jun, 2023   **Month-** March 2023

Sem- 8th   **Subject-** Introduction to Data Science   **Code-** D033831(033)

Time Allowed: 2 hrs.   **Max Marks:** 40

Note: - Attempt any 5 questions. Each question carries equal marks.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
Q1	Illustrate Data Security issues in Data Science.	[8]	Understanding	CO1
Q2	List out the applications of Data Science in various fields.	[8]	Understanding	CO1
Q3	What are the roles and stages in the data science project?	[8]	Understanding	CO1
Q4	State any few data sources in the data collection step.	[8]	Understanding	CO2
Q5	What is Data Cleaning? Describe its importance with a suitable example.	[8]	Understanding	CO2
Q6	What is Data Reduction? How we can perform data reduction in a data set.	[8]	Applying	CO2

Best of Luck

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Department of Information Technology

Class Test – I   Session- Jan – June 2023 Month –March

Sem- B. Tech. 8th **Subject-** Blockchain   **Code-** D033818(022)

Time Allowed: 2 hrs.   Max Marks: 40

Note: - Attempt any 5 questions. All questions carry equal marks.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain about the concept of digital signature with its suitable diagram and working mechanisms.	[8]	Understanding	CO3
2.	State block chain mechanisms with its objective and challenges.	[8]	Remember	CO1
3.	Explain Proof of Stake based chains in detail.	[8]	Understanding	CO1
4.	State about the Architecture of Blockchain in detail	[8]	Remember	CO1
5.	Explain about the concept of Hashing in detail.	[8]	Remember	CO3
6.	Explain encryption scheme and Elliptic curve cryptography in detail.	[8]	Understanding	CO3

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Department of Information Technology

Class Test – I   Session- Jan – June 2023 Month –March

Sem- B. Tech. 8th **Subject-** Blockchain   **Code-** D033818(033)

Time Allowed: 2 hrs.   Max Marks: 40

Note: - Attempt any 5 questions. All questions carry equal marks.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain about the concept of digital signature with its suitable diagram and working mechanisms.	[8]	Understanding	CO3
2.	State block chain mechanisms with its objective and challenges.	[8]	Remember	CO1
3.	Explain Proof of Stake based chains in detail.	[8]	Understanding	CO1
4.	State about the Architecture of Blockchain in detail	[8]	Remember	CO1
5.	Explain about the concept of Hashing in detail.	[8]	Remember	CO3
6.	Explain encryption scheme and Elliptic curve cryptography in detail.	[8]	Understanding	CO3

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Department of Information Technology

Class Test – I   Session- Jan – Jun 2023 Month- March

Sem- IT 8th, Subject- Big Data Analytics, Code- D033811(033)

Time Allowed: 2 hrs.   Max Marks: 40

Note: - All Questions are compulsory.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
A.	List and elaborate the characteristics of big data. Illustrate by considering an example of E-commerce, how big data is used.	[8]	Understanding	CO1
B.	Differentiate between big data and traditional data, with example.	[8]	Understanding	CO1
C.	What is data, web data and big data? Also differentiate between structed, semi-structed and un-structed data.	[8]	Understanding	CO1
D.	List out various data analysis techniques. Provide proper example to illustrate characteristics of different techniques.	[8]	Understanding	CO2
E.	Enlighten model-based clustering, also highlight the advantages and disadvantages over other unsupervised machine learning-based algorithm.	[8]	Understanding	CO1

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