

Enrollment No.....



Knowledge is Power

**Faculty of Management Studies
End Sem Examination Dec 2024**

MS5CO38 Data Privacy & Ethics

Programme: MBA

Branch/Specialisation: Business
Analytics**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

	Marks	BL	PO	CO	PSO
Q.1 i. What is the primary purpose of data pre-processing?	1	1	1	1	
(a) To delete data					
(b) To structure data for analysis					
(c) To distort data intentionally					
(d) To avoid data governance					
ii. Which of the following is NOT a data format?	1	1	1	1	
(a) CSV					
(b) JSON					
(c) HTML					
(d) RAM					
iii. What is "data minimization"?	1	2	2	2	
(a) Collecting as much data as possible					
(b) Reducing collected data to essentials					
(c) Avoiding data storage					
(d) Maximizing data usage					
iv. Which term refers to ensuring fairness in algorithms?	1	2	2	2	
(a) Anonymity					
(b) Algorithmic fairness					
(c) Metadata management					
(d) Data sharing					
v. Why is data anonymization important?	1	2	3	3	
(a) Ensures data is completely deleted					
(b) It prevents identification of individuals					
(c) It simplifies data sorting					
(d) It removes ethical considerations					

		[2]					[3]			
vi.	Which of the following is a feature of unbiased data?	1	2	3	3		ii.	Discuss the modern risks to data privacy and explain how organizations can mitigate these risks.	8	4 8 2
	(a) Transparency						OR	iii. Explain the impact of errors in data processing and model design on ensuring fairness and accountability in data systems.	8	4 5 3
vii.	What does metadata describe?	1	2	4	4		Q.4	i. What is the importance of data ethics?	3	2 5 3
	(a) Data security algorithms						ii.	Explain what is meant by "fairness" in data ethics. Why is it important for data to be unbiased?	7	3 5 3
	(b) Data ownership						OR	iii. What do you mean by open data usage? Explain it with its features and characteristics.	7	3 5 3
viii.	What is Big Query primarily used for?	1	2	4	4		Q.5	i. What is metadata, and why is it important in managing databases?	4	2 4 4
	(a) Data anonymization						ii.	Explain the role of relational databases in organizing and securing data. Provide an example of their use.	6	2 4 4
	(b) Managing small data sets						OR	iii. What is data integration, and how does it help in accessing and managing data from different sources?	6	2 4 4
ix.	What is a key principle of privacy design?	1	2	8	5		Q.6	Attempt any two:		
	(a) Ignoring user consent						i.	What is personal data, and why is transparency important in its protection?	5	2 8 5
	(b) Maximizing data sharing						ii.	Explain the importance of balancing security and analytics in data protection.	5	3 8 5
	(c) Transparency						iii.	What are privacy laws, and how do they help in ensuring compliance with data protection standards?	5	2 8 5
x.	Which of the following is a key aspect of data protection laws?	1	2	8	5					
	(a) Ignoring third-party data sharing									
	(b) Ensuring transparency and compliance									
	(c) Avoiding physical security measures									
	(d) Eliminating anonymization techniques									
Q.2	i. Explain the difference between structured and unstructured data with an example.	2	2	1	1					
	ii. What are the key steps in the pipeline of data access?	3	3	4	4					
	iii. Discuss the importance of data pre-processing in ensuring data credibility, privacy, and ethics.	5	4	5	3					
OR	iv. Explain data modeling techniques.	5	2	4	4					
Q.3	i. What is data minimization, and why it is an essential principle in data privacy?	2	2	8	2					

Marking Scheme
(MS5CO38) Data Privacy and Ethics-(T)

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Q.1	i) ii) iii) iv) v) vi) vii) viii) ix) x)	b. To structure data for analysis d. RAM b. Reducing collected data to essentials b. Algorithmic fairness b. It prevents identification of individuals a. Transparency c. Structural and descriptive aspects of data c. Processing large datasets c. Transparency b. Ensuring transparency and compliance	1 1 1 1 1 1 1 1 1 1	OR Q.4 OR Q.5 OR Q.6	iii. impact of errors in data processing- 4 marks, model design – 4 marks. i. importance of data ethics- 3 points 3 marks ii. fairness in data ethics – 4 marks. Why is it important for data to be unbiased – 3 marks. open data usage. – 3 marks its features and characteristics – 4 marks i. What is metadata, -2 marks, important in managing databases- 2 marks. ii. role of relational databases -3 marks, example – 3 marks iii. What is data integration -2 marks, accessing and managing – 4 marks i. What is personal data -2 marks, importance -3 marks ii. At least 5 points, 1 mark each iii. Privacy laws – 2 marks, ensuring compliance – 3 marks	8 3 7 7 4 6 6 5 5
Q.2	i. ii. iii.	difference between structured and unstructured data with an example – 2 marks key steps in the pipeline of data access – 3 marks importance of data pre-processing in ensuring data credibility (2 marks), privacy (1 marks), and ethics (2 marks)	2 3 5			
OR	iv.	data modelling techniques -5 marks	5			
Q.3	i. ii.	What is data minimization- 1 mark, its importance – 1mark modern risks to data privacy- 4 risk (1 mark each), mitigation these risks – 4 marks.	2 8			
