

	(d) To generate new data	
1	The charts that are helpful in making comparisons _____ (CO4)	1
	(a) Bar Charts	
	(b) Column Charts	
	(c) Pie Charts	
	(d) Both Bar and Column Charts	
1	Which of the following activity would a data analyst not do while spotlighting? (CO5)	1
	(a) Write notes on a white board that contain the data analysis insights	
	(b) Identify ideas or concepts that arise repeatedly	
	(c) Search for broad, universal ideas and messages	
	(d) Focus on the details of the analysis and results	
2.	Attempt all parts:-	
2.a.	What is conditional formatting? (CO1)	2
2.b.	What is a Subquery in SQL? (CO2)	2
2.c.	What is the use of JOINS in SQL? (CO3)	2
2.d.	Define design thinking. (CO4)	2
2.e.	Define stories. (CO5)	2
	SECTION B	15
3.	Answer any <u>three</u> of the following:-	
3	How to remove duplicate observations from a dataset in spreadsheet? (CO1)	5
3	Discuss the types of unstructured data in detail with example. (CO2)	5
3.c.	Discuss the role and importance of VLOOKUP. (CO3)	5
3.d.	What considerations should be made in data visualization so that the audience gets exactly what they want? (CO4)	5
3.e.	How is a dashboard created? Explain in detail. (CO5)	5
	SECTION C	20
4.	Answer any <u>one</u> of the following:-	
4	Why do we need to normalize data before training a model? (CO1)	4
4	What are the steps involved in data validation? (CO1)	4
5.	Answer any <u>one</u> of the following:-	
5	Why do we need to document and verify data? (CO2)	4

5	Explain DISTINCT clause in SQL with example. (CO2)	4
6. Answer any <u>one</u> of the following:-		
6	Discuss the role and importance of data modeling. (CO3)	4
6	What is the meaning of “HAVING” clause in Mysql? (CO3)	4
7. Answer any <u>one</u> of the following:-		
7	List the expectations that a data analyst has from data visualization. (CO4)	4
7	Discuss the phases used in data visualization of design thinking. (CO4)	4
8. Answer any <u>one</u> of the following:-		
8	How do data visualization tools help in vast amount of data used in Big data? (CO5)	4
8	How do data visualization tools used in making data driven decsions.. (CO5)	4