

૧. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] ન લખવાના રહેશે.
 ૨. પ્રશ્ન : ૧[a] અથવા ૧[a(i)] અને ૧[a(ii)] તથા ૨[a] અથવા ૨[a(i)] અને ૨[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૮ માર્ક્સ રહેશે.
 ૩. પ્રશ્ન : ૩[a] અથવા ૩[a(i)] અને ૩[a(ii)] તથા ૪[a] અથવા ૪[a(i)] અને ૪[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૭ માર્ક્સ રહેશે.
 ૪. દરેક પ્રશ્નનો પ્રશ્ન નં ૧(b), પ્રશ્ન નં ૨(b), પ્રશ્ન નં ૩(b) તથા પ્રશ્ન નં ૪(b) (ટુંકા પ્રશ્નો) વિદ્યાર્થીએ લખવાના નથી.

Q-1	Define Data warehouse and characteristic of Data warehouse and explain its architecture.	14
Or		
Q-1(A)-(i)	Define Data Mart and Types of Data Mart in detail.	07
Q-1(A)-(ii)	Explain security in data mart in detail.	07
Q-1(B)	Define following term (any four)	04
	1. Staging Area	
	2. Data Mart	
	3. Operational System	
	4. Binning	
	5. DBMS	
	6. Informational systems	
Q-2	Explain OLAP and Types of OLAP with advantage and disadvantage.	14
Or		
Q-2(A)-(i)	Differentiate OLTP and OLAP system.	07
Q-2(A)-(ii)	Write a detailed note on: "Comparison of ROLAP and MOLAP."	07
Q-2(B)	Do as directed (any four)	04
	1. The data is stored, retrieved and updated in _____.	
	2. In which technique of data mining, the collection of data objects that are similar to one another within the same group?	
	3. Define the term: "Roll up" in data mining.	
	4. What do you mean by "Dice" in data mining?	
	5. The processing time of a transaction is comparatively less in OLTP. (True/False)	
	6. Explain HOLAP in short.	
Q-3	What is KDD? Draw the diagram of KDD and explain it in detail.	14
Or		
Q-3(A)-(i)	Explain concept of ETL in detail with diagram.	07
Q-3(A)-(ii)	Explain issues in data mining.	07
Q-3(B)	Do as directed (any three)	03
	1. List out Data Mining task primitives.	
	2. What is classification?	
	3. List out functionalities of data mining.	
	4. What is predictive data mining?	
	5. What do you mean by "Data Mining"?	
Q-4	Draw and explain the architecture of data mining system.	14
Or		
Q-4(A)-(i)	Briefly discuss Designing GUI based on a DMQL.	07
Q-4(A)-(ii)	Explain Data Mining Technique in detail.	07
Q-4(B)	Do as directed (any three)	03
	1. Full form of WWW.	
	2. List out Challenges in Web Mining.	
	3. Full form of VIPS.	
	4. Define the term Biological Sequences?	
	5. Lists data mining application.	