


Name: Enrolment No:			
<p style="text-align: center;">UPES End Semester Examination, May 2025</p> <p> Course: Business Intelligence Program: B.Tech (CS) All Course Code: CSBA 4020P </p> <p style="text-align: right;"> Semester: 8 Time : 03 hrs. Max. Marks: 100 </p> <p>Instructions: Please attempt according to the time provided and given weightage.</p>			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Discuss the key elements of report authoring.	4	CO2
Q 2	Briefly discuss the different types of business queries along with an example to demonstrate their usage in business.	4	CO3
Q 3	Discuss different types of risks associated with a BI project.	4	CO1
Q 4	Discuss the impact of emerging technologies such as AI and machine learning impact BI solutions	4	CO3
Q 5	Differentiate between SaaS-based BI and traditional on-premise BI solutions.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Discuss in detail with diagram the Kimball life cycle diagram of BI project.	10	CO1
Q 7	Describe the core components of Business Intelligence architecture. How does each component contribute to the overall functionality of BI systems?	10	CO5
Q 8	Compare dashboards and scorecards with traditional reports and discuss how these tools provide ongoing insights into performance metrics. Or Describe the report authoring process and how the use of metadata models, ad-hoc reports, drill-down capabilities, and automated scheduling can meet these demands.	10	CO4
Q 9	Discuss the components of a dashboard and explain different types of dashboards and their usage.	10	CO4
SECTION-C (2Qx20M=40 Marks)			
Q 10	Discuss the architecture of data warehouse and outline the steps to build the data warehouse, including data extraction, transformation, loading	20	CO1

	(ETL), and schema design. How will OLAP and advanced analytics be layered on top of this structure?		
Q 11	<p>Explain how a phased and incremental BI roadmap can help manage expectations. Include project stages, early wins, risk mitigation, and ROI measurement.</p> <p style="text-align: center;">Or</p> <p>Discuss the components and role of Enterprise Performance Management (EPM), and how does it integrate with Business Intelligence systems to improve organizational performance?</p>	20	CO5