U.S.N



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Computer Science and Engineering Semester End Examination; July / Aug. - 2022 Business Intelligence and Applications

Time: 3 hrs Max. Marks: 100

Course Outcomes

The Students will be able to:

- CO1: Illustrate role of business intelligence in the IT applications.
- CO2: Construct OLAP operations to analyze business intelligence
- CO3: Apply various ETL techniques of data integration
- CO4: Identify data modeling technique to analyze data for a successful business enterprise.
- CO5: Construct enterprise reports for various situations of a business enterprise

Note: I) PART - A is compulsory. Two marks for each question.

II) PART - B: Answer any <u>Two</u> sub questions (from a, b, c) for a Maximum of 18 marks from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
	I:PART-A	10			
I a.	Mention the characteristics of internet ready IT applications.	2	L1	CO1	PO1
b.	List roles of DSS and MIS in business intelligence.	2	L2	CO2	PO1
c.	List various needs for data warehouse.	2	L3	CO3	PO1
d.	Define the following:	2	1.2	CO4	DO1
	i) Metric ii) Indicator	2	L3	CO4	POI
e.	List various business metrics.	2	L3	CO5	PO2
	II : PART - B	90			
	UNIT - I	18			
1 a.	Differentiate OLTP and OLAP.	9	L1	CO1	PO1
b.	Explain digital data and is types in detail.	9	L2	CO1	PO2
c.	Explain different OLAP architectures with its advantages and	9	L3	CO1	PO2
	disadvantages.	9	L3	COI	102
	UNIT - II	18			
2 a.	Define EIS. Explain how is information is analyzed for making	9	I 1 2	CO2	P∩1
	decision in BI?		L1,2	CO2	101
b.	Describe business intelligence roles and responsibilities.	9	L3	CO2	PO2
c.	List and explain business intelligence applications.	9	L2	CO2	PO2
	UNIT - III	18			
3 a.	Explain Ralph Kimball's approach and W.H Immon's approach.	9	L2	CO3	PO1
b.	Explain various constituents of data warehouse with diagram.	9	L2	CO3	PO2
c.	Differentiate between quality and data profiling.	9	L1,2	CO3	PO2

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	UNIT - IV	18			
4 a.	Explain any two types of data models with an example each with a neat diagram.	9	L2 CO4 PO1		
b.	Explain data modeling life cycle.	9	L2 CO4 PO2		
c.	Discuss fact table and data table with examples.	9	L2 CO4 PO2		
	UNIT - V	18			
5 a.	Explain report standardization and presentation practices.	9	L2 CO5 PO1		
b.	Differentiate score card and dashboard used in enterprise reporting	9	L2 CO5 PO2		
c.	Explain step by step guidelines to create enterprise report by using MS-Access.	9	L1,3 CO5 PO2		

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