Total No. of Questions: 10]		SEAT No.:
P3179	[5461]-220 D	[Total No. of Pages : 2

B.E. (Computer Engineering) **BUSINESS ANALYTIC AND INTELLIGENCE**

(2012 Course) (Semester-II) (Elective-IV (A)) (Open Elective) Time: 2½ Hours] [Max. Marks: 70 Instructions to the candidates: Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 3) Assume suitable data if necessary. 4) **Q1)** a) Draw and explain cycle of Business Intelligence. [6] b) Differentiate between DBMS system and BI system. [4] ORSay whether each of the following is an example of data or information. [6] **Q2)** a) i) The name of best selling News Paper 35209857 ii) iii) The average marks for the assignment b) Explain Business Intelligence Architecture with diagram? [4] Design Decision Support System for Medical application to predict **Q3)** a) whether disease is Positive or Negative for a particular patient. Assume suitable dataset and model. [6] b) Explain components of Decision support system with diagram. [4] OR**Q4)** a) Explain Drill Down and Pivot operations of OLAP with example. [6] What is snapshot materialized view? Give one example of Snapshot b) materialized view. [4]

P.T.O.

Q5) a)	What are outliers? Explain various types of outliers with suitable example. [8]		
b)	Suppose for the attribute income mean value is \$ 54000 and standard deviation is \$ 16,000. Normalize income value \$ 73,600 using Z-score normalization method. [5]		
c)	For the given data for Book Price (in dollars), apply Binning mean technique for smoothing the noise. 15,21,21,29,34,24,4,8,9,25,26,28.[4]		
	OR		
Q6) a)	Explain distance based and density based method of outlier detection with example. [10]		
b)	List and explain the different challenges in outlier detection. [7]		
Q7) a)	Explain the concept of Business Intelligence Infrastructure. Explain and Draw suitable diagram for BI Infrastructure requirements. [10]		
b)	Explain various BI operations required for business continuity. [7]		
	OR		
Q8) a)	Explain the techniques of managing and maintaining Business Intelligence systems. Why it is important to maintain BI Systems? [10]		
b)	List and explain important factors for planning BI system scalability.[7]		
Q9) a)	Explain Market Basket analysis with example for Marketing application.[10]		
b)	Explain the application of Business Intelligence in Banking. [6]		
	OR		
Q10) a)	Explain BI Applications in Credit Card Fraud Detection with suitable example. [10]		
b)	Write short note on: [6]		
	i) Data Analytics		
	ii) Business Analytics		
	>		
[5461]-2	20 D ²		

www.manaresults.co.in