Q.P. Code: 24387

		(3 Hours) [Total Marks : 8	[Total Marks : 80	
N.B.	:(1)	Question No.1 is Compulsory.	100	
	(2)	Attempt any 3 questions out of rest.	600	
	(3)	Figure to the right indicate full marks.		
	(4)	All questions carry equal marks.		
1.		A Canteen wants to design database with respect to the four dimensions, customer, Food items, category and bill.		
	a)	Design tables with assuming suitable attributes and normalize the database.	55	
	b)	Define primary key, foreign key with its importance in database design. List Primary and foreign key in each table of above tables.	5	
	c)	Draw Star schema and Snowflake schema for above design.	5	
	d)	Explain difference between star schema and snowflake schema	5	
2.	a)	Define Big Data. Explain various characteristics and issues in Big Data.	10	
	b)	Define Functional area Information System. Explain Information system For Human Resource Management.	10	
3.	a)	Define relational database. Explain its advantages and disadvantages in detail.	10	
	b)	Explain Computer based Information System with its types.	10	
4.	a)	Explain various threats to information system.	10	
	b) 0	Explain Data Warehouses and Data Marts with its characteristics.	10	
5.	a)	Explain Pervasive Computing and the technologies that provide infrastructure For Pervasive Computing.	10	
	b)	Define Business Intelligence. Explain Business Intelligence applications for Data Analysis.	10	
6.		Write short notes on any two	20	
	a)	Transaction Processing System		
	b)	Enterprise Resource planning		
	c)	E-Commerce E-Commerce		
SP P				
J. 60.	300 P.	7		