Seat No: _____

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY M.Tech. Winter 2019 - 20 Examination

Semester: 3 Subject Code: 203200201 Subject Name: Business Analytics

Date: 28/11/2019 Time: 10:30 AM TO 1:00 PM Total Marks: 60

Instructions:		
 All questions are compulsory. Figures to the right indicate full marks. 		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1	A) Define following terms:	
	1) Descriptive analytics 2) Predictive analytics 3) Prescriptive analytics	(05)
	4) Decision analysis5) Strategic decision	(00)
	B) What is Data Mining? Explain the process of Data Exploration and Reduction in data	
	mining.	(05)
	C) How important is analytics in relation to success of a business? Explain the scope of business analytics.	(05)
		(00)
Q.2	Answer the following questions. (Attempt any three) (Each five mark)	(15)
	A) Explain the Utility Theory in Decision analysis.	
	B) Define Business analytics. Explain business analytics process in detail.	
	C) Explain the Regression-Based Seasonal Forecasting Models.	
	D) Explain the Decision Analysis With Probabilities.	
Q.3	A) What is the role of classification techniques in analytic? Explain the K-Nearest	
	Neighbour (KNN) with suitable example.	(07)
	B) What is Predictive Analytics? Explain the techniques for predictive analytics with	
	example.	(08)
OR		
	B) Explain the perspective modeling with example.	(08)
0.4	A) What is forecasting? Explain the Qualitative and Judgmental Forecasting techniques with	
C	examples.	(07)
OR		
	A) What is Monte Carlo Simulation? Explain the Monte Carlo Simulation using Analytic Solver Problem.	(07)
		(07)
		(0.0)

B) What is decision Tree? Explain the working of decision tree classification with example. (08)