Indian Institute of Information Technology Dharwad

Midterm Examination

Course: Data and Business Analytics			Code: DS201	
Max Marks: 50		50	Duration : 60 Min	
	• Answer	r all questions, submit the handwritten	answer scripts in google classroom.	
	1. What d	o you understand by Business Intelligence	e? What is the need for it?	(5
	2. How an	organization can retain its organizationa	structure and successfully align with BA team	ı? (5
3.	Show how standard deviation is used in at least two different metrics/ratios in financial data analywith regard to risk and returns on investment. Compare the two with a focus on how to interpret to chosen metrics/ratios.		es (5	
4. Illustrate how business analytics helps in decision making by giving a real or realistic example analytics helped in making the right decision.			king by giving a real or realistic example of ho	ow (5
5.	. Illustrate how business analytics helps in getting better insights into the business by giving a real crealistic example of how analytics led to better understanding of some business phenomenon.			(5
6.		•	ighways (in Rs crores per day) and rainfall amonese two data sets together? What will you plot (10)	
7.	Explain this	R code and show what kind of plot you	expect to see:	
		x < rnorm(1000)		
		y < rnorm(1000)		
		$y \leftarrow y + x$		
		$plot(y \sim x)$		
		$m \le -lm(y \sim x)$		
		abline(m)		(5)
9.	(a) Wh	at is a Box-and-Whisker plot? What a	ll does it show?	
	(b) Dra	w an approximate Box-and-Whisker p	plot for the following data:	
	1, 2, 3	, 4, 5, 6, 7, 8, 9, 10, 50, 91, 92, 93, 94,	95, 96, 97, 98, 99, 100	
	(c) Wh	nat is the IQR for this data set?		(10)