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Daffodil International University Department of Business Administration Course Title: Statistics for Decision-Making

Course Code: 0542-213

Semester: Fall 2024

Examination: Midterm Term Full Marks: 25

Time: 1 Hour 30 minutes Section: All

Teachers' Initial: DMSA, Urmi, AS

[NB: Answer all the following questions]

				LOTO 1 T 12 1
01	a)	Describe the population	and sample with example.	(CLO 1, L 1) 1
	b)	Discuss different source	es of data. Explain any one method to	(CLO 1, L 2)
		collect primary data		3
	c)	Identify the followin	g variables according to qualitative,	(CLO 1, L 1) 3
		quantitative discrete or continuous: Gender, Sales volume of		
		Daffodil PC, Soft drink preference, Number of PC sales per		
		month, IELTS score, and Number of courses taken each		
	topic p	semester.		
02		771	and a figure of Concili Dania I TD	
02		The number of employees of 30 branches of Sonali Bank LTD		
		PLC are given below;		
		55, 37, 30, 29, 17, 24, 33, 12, 37, 57, 48, 25, 42, 29, 17, 35, 42, 50, 19, 21, 14, 34, 36, 15, 23, 37, 41, 27, 23, 18		
	A)	Is this data is continuo	us data or discrete data?	(CLO 2, L 3) 1
	B		do you suggest to organize the data?	(CLO 2, L 3) 1
	c)	Organize the data acco	ording to the frequency distribution table.	(CLO 2, L 3) 4
		Find the relative frequ	ency.	
03		The unemployment rate in Bangladesh by month is given in the		
		table below:		
		Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov		
		Dec		
			7.3 7.8 6.6 6.5 6.5 6.8 7.3 7.6	(CY C C T C)
	a)	What is the arithmetic mean of the Bangladesh unemployment		(CLO 2, L 3) 2
	1.)	rates?		(CLO 2, L 3) 2
	b)	Find the median and the mode for the unemployment rates.		
	c)	Find the standard deviation of the unemployment rate.		(CLO 2, L 3) 2
04		The profit of 30 companies of Bangladesh are given below;		
			Number of companies	
		0-20	5	
		20-40	8	
		40-60	11	
		60-80	4	
		80-100	2	
	a)	Find the mean of profit.		(CLO 2, L 3) 2
	b)	Find the median of profit		(CLO 2, L 3) 2
	c)	Find the mean deviation of profit.		(CLO 2, L 3) 2