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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**
Time: 1 Hour 30 minutes | **Full Marks: 25**
Section: All | **Teachers' Initial: DMSA, Urmi, AS**

[NB: Answer all the following questions]

01	a)	Describe the population and sample with example.	(CLO 1, L 1) 1
	b)	Discuss different sources of data. Explain any one method to collect primary data.	(CLO 1, L 2) 3
	c)	Identify the following variables according to qualitative, 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 semester.	(CLO 1, L 1) 3
02		The number of employees of 30 branches of Sonali Bank LTD PLC are given below;	
		25, 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 continuous data or discrete data?	(CLO 2, L 3) 1
	b)	Which 'class interval' do you suggest to organize the data?	(CLO 2, L 3) 1
	c)	Organize the data according to the frequency distribution table. Find the relative frequency.	(CLO 2, L 3) 4
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** 8.7 8.8 8.7 7.8 7.3 7.8 6.6 6.5 6.5 6.8 7.3 7.6	
	a)	What is the arithmetic mean of the Bangladesh unemployment rates?	(CLO 2, L 3) 2
	b)	Find the median and the mode for the unemployment rates.	(CLO 2, L 3) 2
	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;	

Profit Range (crore)	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