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
Teachers' Initial: DMSA, Urmi, AS

Section: All

[NB: Answer all the following questions]

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)
	c)	quantitative, discrete of Daffodil PC, Soft drin	g variables according to qualitative, or continuous: Gender, Sales volume of k preference, Number of PC sales per and Number of courses taken each	
00			COO. 1 C.C. 1' D. 1 T. C.D.	
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)		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 according Find the relative frequency	ording to the frequency distribution table. ency.	(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