

## National University of Computer and Emerging Sciences, Lahore Campus

	<b>Course:</b>	<b>Probability and Statistics</b>	<b>Course Code:</b>	<b>MT2005</b>
	<b>Program:</b>	<b>BS(Computer Science)</b>	<b>Semester:</b>	<b>Spring-2025</b>
	<b>Duration:</b>	<b>10 Minutes</b>	<b>Total Marks:</b>	<b>10</b>
	<b>Quiz Date:</b>	<b>29-01-2025</b>	<b>Weight</b>	<b>2%</b>
	<b>Section:</b>	<b>BCS-4F</b>	<b>Page(s):</b>	<b>1</b>
	<b>Exam:</b>	<b>Assignment-1</b>	<b>Roll No:</b>	
<b>Instruction/Notes:</b>	<b>Attempt All Questions/Parts</b>			

### **QUESTION 1:**

**(Marks=1+1+4+4)**

The table shows data for seven colleges and universities. The endowment (in billions of dollars) and the percentage of applicants admitted are shown. The state each school is located in, the campus setting, and the NCAA Division for varsity teams were obtained from the National Center of Education Statistics website.

### **DATA FOR SEVEN COLLEGES AND UNIVERSITIES:**

School	State	Campus Setting	Endowment (\$ billions)	Applicants Admitted %	NCAA Division
Amherst College	Massachusetts	Town: Fringe	1.7	18	III
Duke	North Carolina	City: Midsize	5.9	21	I-A
Harvard University	Massachusetts	City: Midsize	34.6	9	I-AA
Swarthmore College	Pennsylvania	Suburb: Large	1.4	18	III
University of Pennsylvania	Pennsylvania	City: Large	6.6	18	I-AA
Williams College	Massachusetts	Town: Fringe	1.9	18	III
Yale University	Connecticut	City: Midsize	22.5	9	I-AA

Answer the following questions listed below:

- a) How many elements are in this data set?
- b) How many variables are in this data set?
- c) Which variables are qualitative and which variables are quantitative?
- d) What type of measurement scale is used for each of the variables tabulated below?

	State	Campus Setting	Endowment	Applicants admitted
c				
d				