National University of Computer and Emerging Sciences, Lahore Campus				
	Course:	Probability and Statistics	Course Code:	MT2005
	Program:	BS(Computer Science)	Semester:	Spring-2025
	Duration:	10 Minutes	Total Marks:	12
	Quiz Date:	29-01-2025	Weight	2%
	Section:	BCS-4E	Page(s):	1
	Exam:	Assignment-1	Roll No:	
Instruction/Notes:	Attempt All Questions/Parts			

QUESTION 1:   (Marks=1+1+5+5)

Dataset Description: The following dataset captures the activity of users on an online coding platform. The platform recently ran a promotion offering bonus points for completing specific challenges. Data was collected from 8 users over a single day during the promotion period.

User ID	Type of User	Challenges Completed	Total Points Earned	Utilized platform	Gender	Education Level	Age
1	Regular	1	39.50	Web Interface	Male	Bachelors	32
2	Promotional	2	102.40	Mobile App	Male	Masters	28
3	Promotional	1	22.50	Web Interface	Male	Bachelors	29
4	Regular	1	100.40	Web Interface	Female	Ph.D.	30
5	Regular	3	54.00	Mobile App	Female	Bachelors	31
6	Promotional	2	50.20	Mobile App	Male	Bachelors	31
7	Regular	1	25.50	Web Interface	Female	Masters	32
8	Promotional	2	28.70	Mobile App	Female	Ph.D.	33

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) Which type of measurement scale can be used for each of the variables tabulated below?

	Type of User	Challenges Completed	Total points earned	Utilized platform	Education Level
c					
d					