



SECI2143: PROBABILITY & STATISTICAL DATA ANALYSIS
2021/2022 – SEMESTER 2

QUIZ 1

Name : _____
Student ID : _____ Section : _____
Date : _____

Marks: _____
20

QUESTION 1

(10 MARKS)

Personal records of seven employees from a total of 40 employees in the Mantop Company are listed in Table 1.

Table 1

Name	Age	Gender	Qualification	Position	Salary	Department
Ismail	24	Male	Diploma	Programmer	3500	IT
Jamal	30	Male	Degree	Manager	10000	Finance
Fatimah	33	Female	Degree	Accountant	7000	Finance
Ahmad	45	Male	Master	Project Manager	12000	IT
Maria	42	Female	Diploma	Officer	6000	Human Resource
Salina	27	Female	Diploma	Secretary	2500	Finance
Nasir	28	Male	Degree	System Engineer	8000	IT

a) Based on the data given in Table 1, answer the following questions:

- What is the population?
- What is the sample?
- Is it primary or secondary data? Justify your answer.

- b) Determine which of the four levels of measurement (nominal, ordinal, interval, and ratio) is most appropriate for each question below:

	Questions	Level of Measurement
i.	The lecturer records the letter grade for the Database subject for each student.	
ii.	Birth year of staff at the School of Computing, UTM.	
iii.	The number of students who graduated in each program for each convocation ceremony.	
iv.	The university where you were studying.	
v.	The honours classification awarded for all Undergraduate programs: First Class, Second Class (Upper), Second Class (Lower), Third Class.	
vi.	The nationality of students for all Postgraduate programs at the Faculty of Engineering, UTM.	

QUESTION 2**(10 MARKS)**

Table 2 shows the number of students obtaining marks in their final examination for the Logic Digital Subject.

Table 2

40	17	25	35	51	60	73	96	70	90
52	10	20	55	62	63	73	70	79	88
44	65	47	29	35	67	56	38	49	77

Based on the data given in the Table 2, answer the following questions:

a) Draw a stem-and-leaf diagram.

b) Calculate mean and median.

c) Calculate the Q1 and Q3.