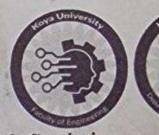


Mid-Term Examination Fall Semester 2023 – 2024





Faculty of Engineering

Department: Software Engineering

Stage: 2nd

Total Mark: 100

Course Title: Probability & Statistics

Course Code: KOU20322 Time Allowed: 90 minutes

ANSWER ALL QUESTIONS

Q1-

49 Marks

In a certain university, the mean age (in years) of the employees in a number of colleges is given

as below:

39.6, 29.5, 28.8, 28.3, 29.2, 36, 29.6, 29.4, 28.1, 29.6, 29.7, 28.9, 28.6, 31.1, 28.9, 31.5

For the data given:

- a. Find the mean. 7 45. 4
- b. Find the median.
- c. Find the mode.
- d. Find the range.
- e. Find the Inter-Quartile Range (IQR).
- f. Find the standard deviation and variance.
- g. Develop a stem-and-leaf plot.

16

24.3625

51 Ma 42, 72, 5\$, 18, \$0, 10, 3\(\frac{1}{3}\), 2\(\frac{1}{3}\), 3\(\frac{1}{3}\), 2\(\frac{1}{3}\), 3\(\frac{1}{3}\), 2\(\frac{1}{3}\), 3\(\frac{1}{3}\), 3\(\frac{1}\), 3\(\frac{1}{3}\), 3\(\frac{1}\), 3\(\frac{1}\), 3\(\frac

- Construct an appropriate frequency distribution graph.

Best wishes Examiner: Dr Ali Al-Wakeel