



COMSATS University Islamabad, Islamabad Campus
Department of Computer Science

Mid-Term Examination – Spring 2025

Probability and Statistics

Program: BCS

Semester: 4th

Total Marks: 25

Instructor: Dr. Humaira

Q1: From the data given below which group is more consistent? {apply only one suitable dispersion}. Also determine the skewedness of both groups

Weights	28	23	34	32	27	32	29	20
volume	23	34	33	19	17	16	27	28

Q2: In how many ways you can obtain 4 red cards when you will select only first four randomly picking from the deck.

Q3: What are the conditions to apply all averages(to the point with only 1 example)also what are advantages and disadvantages of all dispersions(only precise and to the point answer)

Q4: In a bag there are 10 bulbs 4 red 4 yellow and 2 green. What is the probability of selecting 3 bulbs in such a way that red green and yellow will come

- With replacement
- Without replacement

Q5: What is the probability of selecting 7 balls from 15 balls, 8 red 3 yellow and 4 blue balls when

- All are red
- Non is red
- At least 6 red balls.