

Introduction to Statistical Methods

(S2-22_AIMLCZC418) – Assignment 1

AIML Section 2

Each question carries 2.5 Marks (2.5 x 4 = 10 Marks)

Duration: 17th June 2023 – 2nd July 2023

- 1) Submissions are individual
- 2) Solve these on paper, scan, and upload
- 3) Plagiarism results in zero marks
- 4) Write your name, BITS ID and Section on each page

1. Online-shopping company sampled its shipping records for a certain day with these results
Time from receipt of order to delivery in (Days)

4	12	8	14	11	6	7	13	13	11	11	20	5	19
10	15	24	7	29	6								

Determine the related statistical measures mean, median, mode and five-point data summary.

2. In class X, 25% of the students are boys and 75% of them are girls. The probability that boys passed in mathematics is 0.12 and the probability that girls passed in mathematics is 0.20. One student is selected at random. What is the probability that the selected student is passed in mathematics?

3. There are two boxes (Type I) each having three kinds of balls - 5 red, 7 white, 8 blue. Similarly, there are three boxes (Type II) that have the same colour balls but the numbers are - 6 Red, 9 white, 5 blue. You randomly choose a box and then randomly choose a ball from it and it happens to be white. What is the probability that the ball came from the first kind of box (I)?

4. A man is known to speak the truth 3 out of 4 times. He throws a die and reports that the number obtained is four. Find the probability that the number obtained is actually a four.

----ALL THE BEST----