Statistics Practice Questions

1. IIT Kanpur measures the time X spent by students in extracurricular activities each day. The variable X follows a continuous distribution with the following PDF:

$$f(x) = k(3 - x) \text{ for } 0 \leq x \leq 3$$
$$f(x) = 0 \text{ for } x < 0 \text{ and } x > 3$$

   I. Find the value of k and find the expression for cumulative distribution functions F(x) for all possible ranges of x.
   II. Find the mean and variance of X
   III. Find the first, second and third quartiles of X. You do not need to solve for the roots of the quadratic equations formed during each quartile calculation. Convert them into $ax^2 + bx + c = 0$ form where a, b, and c are integers.

2. A sample of size 25 is drawn from a normal population. The sample mean is 30, and the sample standard deviation is 5. Construct a 95% confidence interval for the population mean.

3. Given the dataset {4, 8, 6, 10, 12, 14, 16, 18, 20, 22}, what is the z-score of all the values using the percentile rank method?

4. A researcher measures employee performance scores after a new training program for a sample of 8 employees with the following scores: [78,82,88,85,91,79,84,87]. The historical mean score is 80. At the 0.05 significance level, is the sample mean score significantly different from 80?

5. A college wants to test if the average study hours per week for its students is different from the national average of 15 hours. A random sample of 40 students showed an average study time of 16.5 hours with a standard deviation of 4 hours.

   - Formulate the null and alternative hypotheses.
   - Conduct a hypothesis test at the 5% significance level.
   - Based on the result, should the college conclude that its student's study significantly more than the national average?

Given:

- Sample mean ($\bar{X}$) = 16.5
- Population mean (μ) = 15
- Standard deviation (s) = 4
- Sample size (n) = 40
- Significance level = 5%

6. Two academic programs at a university want to compare the average grades of their students. Program A has a sample of 25 students with an average grade of 78 and a standard deviation

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ML Morrison

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