Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. The marks obtained in five courses by a student are 60, 80, 70, 70 and 90. The average mark is 72.
   - 72
   - 80
   - 70
   - 90
   - None of the above
   Accepted Answers: 72

2. The marks obtained in five courses by a student are 60, 80, 70, 70 and 80. The standard deviation of the marks is 10.11.
   - 10.11
   - 10
   - 11
   - 12
   - None of the above
   Accepted Answers: 10.11

3. The variance (choose all the relevant answers)
   - is the square of the standard deviation
   - is always a positive quantity
   - is a measure of central tendency of data
   - is always greater than the standard deviation
   None of the above
   Accepted Answers: 10.11

4. A student collected data on the color of cars parked in a lot. For this data (choose all relevant answers).
   - She can find the mode
   - She can find the mean
   - She can find the median
   - She cannot find the variance
   None of the above
   Accepted Answers: She can find the mode

5. The following describes the association between data
   - correlation coefficient
   - sum of coefficient of variations
   - sum of carcases
   - difference of variances
   None of the above
   Accepted Answers: correlation coefficient

6. The probability of getting heads when a coin is tossed is 0.5. The probability of getting tails is also 0.5. The probability of getting heads in two consecutive tosses is
   - 0.5
   - 1
   - 0.333
   None of the above
   Accepted Answers: 0.25

7. There are 3 white balls and 3 red balls in a bag from which a ball is chosen randomly. It is not put back and another ball is chosen randomly. The probability that we have a 2 balls with different colours is
   - 0.3
   - 0.6
   - 0.1
   None of the above
   Accepted Answers: 0.6

8. The probability of getting heads when a coin is tossed is 0.5. The probability of getting tails is also 0.5. You are required to find the probability of getting 9 tails out of 10 trials. You will calculate them
   - Normal distribution
   - Poisson distribution
   - Beta distribution
   - Binomial distribution
   None of the above
   Accepted Answers: Binomial distribution

9. You are playing a game where you get Rs 1000 if you win and nothing if you lose. The probability of winning is 0.2. The expected gain is
   - Rs 200
   - Rs 2000
   - Rs 400
   - Rs 1000
   None of the above
   Accepted Answers: Rs 200

10. You are participating in a lucky draw where a randomly generated number (integer) between 0 and 100 is given to you. If you get a number greater than or equal to 60, you get Rs 100. Otherwise you have to pay Rs 30. What will be your decision?
    - Play the game because the expected gain is positive
    - Don't play because the expected gain is negative
    None of the above
    Accepted Answers: Don't play because the expected gain is negative