

Find coefficient of variation and give your comment about which team is more consistent?

(b) Calculate the median and mode for the following data:

(8)

Annual sales(In thousand)	10	20	30	40	50	60
Less than						
Frequency	4	20	35	55	62	67

Que.3

(a) Write any one definition of Probability .Also explain Sample space, Mutually exclusive events and complementary event with proper illustration. (7)

(b) Three persons A,B and C aim a target. The probabilities of their hitting a target are respectively $\frac{2}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$. Find the probability that the target will be hit. (8)

O.R

(a) In usual notations state and prove additional theorem of probability for two events. (7)

(b) If $2P(A)=3P(B)=6P(A \cap B)=0.5$ is given than find (8)

1. $P(A \cup B)$ 2. $P(A' \cap B')$ and 3. $P(A' / B')$

Que.4

(a) Give p.d.f. properties and uses of Normal distribution. (7)

(b) Assuming that boys and girls are equally probable find the number of families out of 1600 families each having 5 children, with (8)

(1) 3 boys (2) 5 girls and (3) 2 or 3 boys.

O.R

(a) Give p.d.f. properties and uses of Binomial distribution. (7)

(b) If x is a Poisson variate such that $P(x=3)=P(x=4)$, Prove that (8)

$P(x=2) = 8e^{-4}$.

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