

MODEL QUESTIONS

①

Short Answer question.

- ① Two Two cards are drawn at random from a pack of 52 cards. find the probability that both the card are of red colour ~~or~~ or they are queen. -page-16
2. Define probability. and Two dice are Tossed once find the probability of getting an even no. on the first die or a total of 8. page-08.
3. state and prove multiplication theorem of probability for independent events. page-24
4. Define Random variable, Discrete Random variable, Continuous Random Variable, - Page 41
5. Define Probability mass function, Probability Density function, and Cumulative Distributive function (or distributive function)
- ⑥ Define Expectation and Prove that
$$\text{Var}(X) = E(X^2) - E(X)^2$$
7. find the coefficient of correlation b/w X and Y. - Page-87
 Series x: 17 18 19 ~~20~~ 19 20 20 21 21 ~~22~~ ²² 23
 Y: 12 16 14 11 15 19 22 16 15 20
8. Fit a st. line of Y on X from the following data: - page-98
 x: 0 1 2 3 4 5 6
 Y: 2 1 3 2 4 3 5

Short questions

Discrete Maths

1. Prove that the following argument is valid.

$$\begin{array}{c} p \\ p \rightarrow q \\ \hline q \end{array}$$

2. Write the two definitions of Lattices: (i) Lattice as Partially ordered sets (ii) Lattice as Algebraic systems.

3. Define sublattices with example.

4. Define complements and complemented Lattices.