

18MAT41

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Mod 5 Super Imp

Q. 1 - a full

Q1. The joint probability distribution of two random variables  $X$  and  $Y$  is as given below:

$X \backslash Y$	-2	-1	4	5
1	0.1	0.2	0	0.3
2	0.2	0.1	0.1	0

Find the marginal distribution of  $X$  and  $Y$ . Also find the covariance of  $X$  and  $Y$ .

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Video Soln: Basic Types  
& is  $X$  &  $Y$  independent

Q2. Explain the terms (i) Null Hypothesis (ii) Confidence intervals (iii) Type I and Type II errors.

- Q1

Model QP I & 2

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Q3. Formula 2 [Video: Topic - Formula 2] - Most repeated

Q4. Students  $t$  distribution Qn [Video: Topic 3 - Students  $t$  distribution]

- Model QP

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Q5. Chi square distribution [Binomial data set]

- Video: Topic - Chi Square Distribution

- Model QP I & II