

STATISTICS

(For those who joined in December 2015)

Time : Three hours

Maximum : 100 marks

PART A — (4 × 10 = 40 marks)

Answer any FOUR questions.

1. Prove the following
- (a) Probability of the null set is zero; that $P(\phi) = 0$
 - (b) For each $C_1 \subset \xi$, $P(C) = 1 - P(C^c)$
 - (c) If C_1 and C_2 are subsets of ξ such that $C_1 \subset C_2$, then $P(C_1) \leq P(C_2)$
 - (d) If C_1 and C_2 are subsets of ξ , then $P(C_1 \cup C_2) = P(C_1) + P(C_2) - P(C_1 \cap C_2)$.
 - (e) For each $C \subset \xi$, $0 \leq P(C) \leq 1$.
2. Let X and Y have the joint p.d.f
- $f(x, y) = 6(1 - x - y)$, $0 < x, 0 < y, x + y < 1$ and zero elsewhere. Compute $P(2X + 3Y < 1)$ and $E(XY + 2X^2)$.

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Peterson's



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each preceded by an editors introduction summarizing its contents and general theme The first section sets the stage by discussing some of the historical antecedents of contemporary research in the area From there the book moves to the empirical side of the science of networks before turning to the foundational modeling ideas that have been the focus of much subsequent activity The book closes by taking the reader to the cutting edge of network science the relationship between network structure and system dynamics From network robustness to the spread of disease this section offers a potpourri of topics on this rapidly expanding frontier of the new science

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