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)   If C_1 and C_2 are subsets of ς 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 ς, 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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Camilla Rothe

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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   Universities Handbook ,1985   **The Public and Preparatory Schools Year Book** ,1981   **Handbook of Agricultural Education, 1983** Association of Indian Universities,1983   **Sessional Papers, Printed by Order of the House of Lords, Or Presented by Royal Command, in the Session ..** Great Britain. Parliament. House of Lords,1984   A History of Mathematics Florian Cajori,1980   **Sessional Papers Printed by Order of the House of Lords: Minutes of Proceedings ... Public Bills ... Reports from Committees ... Miscellaneous** Great Britain. Parliament. House of Lords,1984 Includes lists of orders rules bills etc   **Report[s] of the University Grants Commission Review Committee[s]** India. University Grants Commission,1962   Paper ,1975   *Statistics in Indian Universities* India. University Grants Commission,1970   **Handbook on Computer Education, 2005** Veena Bhalla,2005 With reference to India   **Resources in Education** ,1987   **Independent Schools Year Book 1987** J. F. Burnet,1987

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