

Answer the Following Questions

1. Problem # 4 page 97 (in Arnold, Balakrishnan and Nagaraja (1992))
2. Problem # 18 page 103 (in Arnold, Balakrishnan and Nagaraja (1992))
3. Problem # 20 page 103-104 (in Arnold, Balakrishnan and Nagaraja (1992))
4. Problem # 27 page 106 (in Arnold, Balakrishnan and Nagaraja (1992))
5. Calculate the single moments in relation (3.8.4), page 48, for $k = 1, n = 5, i = 1, 2, 3, 4, 5$. Next Calculate the variance covariance matrix by using these single moments and the joint moments in (3.8.5). [in Balakrishnan and Cohen, 1991].
6. Calculate the single and product moments of order statistics from the standard normal distribution when $n = 10$.
7. Calculate the coefficients of the BLUE in example 4.2.1, page 75 [in Balakrishnan and Cohen, 1991].