## البحث السابع (منفرد)

Title: Bayesian Estimation and Prediction Based onGeneralized Type-I

Hybrid Censored Sample

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Abstract.In this paper, we consider an exponential form for the underlying distribution and a conjugate prior, and develop a procedure for deriving the maximum likelihood and Bayesian estimators based on an observed generalized Type-I hybrid censored sample. The problems of predicting the future order statistics from the same sample and that from a future sample are also discussed from a Bayesian viewpoint. For the illustration of the developed results, the exponential and Pareto distributions are used as examples. Finally, two numerical examples are presented for illustrating all the inferential procedures developed here.