

(b) Let $X_1, X_2,, X_n$ be a random sample from $E(\mu, \sigma), \mu \in \mathbb{R}, \sigma > 0$. Find MLE of (μ, σ) .	(10)
21. (a) Let X ~ DU { θ , θ + 1}, θ = 1, 2. Prove that no non-constant function possesses UMVUE.	(10)
(b) State and prove Invariance Property of CAN estimator.	(10)
22. (a) Let X ~ N(μ , 1), $\mu \in R$ and let the prior distribution of μ be N(0, 1). Find the Bayes' estimator	
of μ with respect to squared error loss.	(10)

(b) Let $X_1, X_2, ..., X_n$ be a random sample from U(0, θ), $\theta > 0$. Find a minimal sufficient statistic. (10)

\$\$\$\$\$\$\$