Quiz -1 (A)

Nar	ne:	Roll:	Sign:		
	 You have 45 minutes to answer a Switch off your electronic devices Please read all questions careful discuss them with your neighbour 	s and put them in y Illy before writing	the space provided in your bag or pocket. your answers. If you held we will come to you.		ot _
	As per a poll, 63.5% of engineer sociologist wants to check if this selected high school seniors and Pick the correct null hypothesis. \square p ≥ 0.635 \square q = 0.5	s rate has decli	ned. The sociologis	t surveys 700 random	ly
	Pick the correct alternative hypoth p > 0.635 q < 0.5 Here, p is the population proporti NCR that have a driver's license seniors in the sociologist's randon What is the null hypothesis and al	nesis. p < 0.639 on, i.e., probabil and q is the san n sample that ha	g q ≠ 0.635 lity of high school senple proportion i.e.,	eniors in the entire Dell probability of high scho	ol
	\Box H ₀ : μ ≥ μ ₀ & H ₁ : μ < μ ₀ \Box H ₀ : μ ≤ μ ₀ & H ₁ : μ > μ ₀ \Box H ₀ : μ > μ ₀ & H ₁ : μ = μ ₀ \Box H ₀ : μ = μ ₀ & H ₁ : μ ≠ μ ₀	,,	J	•	•
	What are the measures of central Mean Variance	☐ Interquartile		[2 marks]	-
4.	Which of the following technique i			[2 marks]	
	Your friend gives you a coin. He can heads. To test his claim, you start end up rejecting your null hypothe	alls it a magic co rted tossing coin	, ,	is biased towards flippin	ng Du
	\square It flips heads with a probability of 0.55 for a small number of random tosses.				
	\square It flips tails with a probability of 0.55 for a small number of random tosses.				
	It flips heads with a probability of 0.55 for a large number of random tosses. (If no assumption is stated for this question or null hypothesis (H_0): coin is unbiased) (Give full marks)				
	It flips tails with a probab (Only if null hypothesis (I			andom tosses.	
	To test if a coin is biased or not your H_1 : $\mu \neq 0.5$. Based on your null hy to have a sample set with at least	/pothesis, over e	xpectation how man		ct

Define geometric random variable