	FACULTY OF BUSINESS & SCIENCE MANAGEMENT KOLEJ UNIVERSITI ISLAM PERLIS		/10
COURSE : BUSINESS STATISTICS	CODE : BVM 4003	TOPIC : GOODNESS OF FIT TEST	
ASSESSMENT : QUIZ	NO : 4	DURATION : 15 MINUTES	
NAME :		STUDENT ID :	

Answer ALL questions.

The adviser of an ecology club at a college believes that the group consists of 10% freshmen, 20% sophomores, 40% juniors and 30% seniors. The membership for the club this year consisted of 14 freshmen, 19 sophomores, 51 juniors and 16 seniors, as shown in table below. At $\alpha = 0.025$, test the adviser's conjecture.

Cars	Freshman	Sophomores	Juniors	Seniors	Total
Observed (O)	14	19	51	16	100

(10 Marks)

STEP 1: HYPOTHESIS

H₀:.....

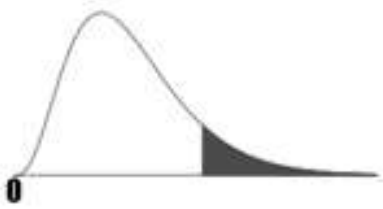
H₁ :.....

STEP 2: FIND EXPECTED FREQUENCY & STEP 3 COMPUTE CHI-SQUARE TEST

Observed (O)	Expected Frequency (E)	Chi-Square Test $\left(\chi^2_{test} = \frac{(O-E)^2}{E} \right)$
O ₁₁	E ₁₁ =	
O ₁₂	E ₁₂ =	
O ₁₃	E ₁₃ =	
O ₂₁	E ₂₁ =	
O ₂₂	E ₂₂ =	
O ₂₃	E ₂₃ =	
TOTAL $\chi^2_{test} =$		

STEP 4: FIND CRITICAL VALUE

STEP 5: CHECK AND MAKE DECISION



STEP 6: CONCLUSION

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