3. Letter grades are associated normal distribution, thus we seed

Grade	Intorval	Prob	Expedient About	
ŧ/	[M+5e'v)	0.023	600×0.02) = 13.8	
\mathbb{G}	(mto mtse)	0.136	C60 x Q.136 = 81.6	
C	[n-e, n+e)	0.682	600 % 00, 682= 409.2	
\bigcirc	[4-20, 4-0)	0.134	606 x 0,130 = 81.4	
子	(-0, N-20)	0.023	600 7 6,013 = 13.8	Total Students = 600
,				

$$\chi^{8} = \sum \frac{(0-E)^{2}}{E}$$

$$= \frac{(77 - 13.8)^{2}}{13.8} + \frac{(150 - 81.6)^{2}}{81.6} + \frac{(210 - 409.2)^{2}}{409.2}$$

$$+ \frac{(135 - 81.6)^{2}}{81.6} + \frac{(38 - 13.8)^{2}}{13.8}$$

Sina, X^2) X^2 c i.e observed X^2 is more than both critical value, we can reject the noll hypothems. The Distribution significantly deviate from normal distribution at both 5% and 10% level of

Silgnilgicanc.

Shipmend A

Shipmul B

UB = 4.74

We Fail to reject the A and B came Bame population at both 51. and 101. Significance

$$dA = \left(\frac{GA^2}{N\pi} + \frac{\sigma^2B}{N_B}\right)^2$$

$$\frac{\left(\frac{\sigma^2A}{N_B}\right)^2 + \left(\frac{\sigma^2}{N_B}\right)^2}{N_B - 1}$$

dfa ≈ 16 t (x=0.05)=0.69 t (x= 0.10) = 1.746 t < te(x=0.05), to (x=0.10) We Fail to reject the A and B came Bame population at both 5 1/2 and 10 1/2 Signi ficana.