D solve. Here v=20, $\bar{x}=42$ s=5Let Ho: The sample is drawn from a population with mean v=45Ander v=45Ander v=45Ander v=45Ander v=45Ander v=45And v=45A

(a) solve. Ho e The variance are equal i.e $G_1^2 = G_2^2$ 2/e the samples have been alkania from normal populations with same variance

The Gift $G_1^2 + G_2^2$ Under null hypothesis the fest statistic $F = S_1^2 (S_1^2 > S_2^2)$ $S_2^2 = Z(x_2 - x_1)^2$ $S_2^2 = Z(x_2 - x_2)^2$ Computation for S_1^2 and S_2 Here $S_1^2 = G_1^2$

			the fact that the fact that the first that the firs	And the same of th	- 13
	(0, 0, 1)	(2.5)2	22	(x2-30)	(x2 - x2)2
241	(4,-41)	Caras			9.85 96
29	6 - 84	0.7856	28	- 3.14	and the same of th
		The state of the s	30	-1,14	1 . 2996
30	1.89	3,3836			
31	2.16	8.0656	33	41,86	3.4356
	7 7 7			-	6 - 7396
24	-4.16	17.3056	32	0.86	0 1 1324
27		1.2456	3.2	0.86	0.7396
- 1	_[.].	1.3430		***************************************	A PROPERTY OF THE PROPERTY OF
28	-0:16	0.0256	29	-2.14	4.5706
			0.7	0.86	8-1796
			39	2,80	
to to 2		36.0136		fota?	16.098
	27 28	29 0.84 30 1.84 31 2.14 24 -4.16 27 -1.16 28 -0.16	29 0.84 0.7856 30 1.84 3.3856 31 2.14 8.0656 24 -4.16 17.3056 27 -1.16 1.3456 28 -0.16 0.0256	29	29 0.84 0.7856 28 -2.14 30 1.84 3.3856 30 -1.14 31 2.14 8.0656 33 +1.86 24 -4.16 17.3056 32 0.86 27 -1.16 1.3456 32 0.86 28 -0.16 0.0256 29 -2.14 24 2.86

$$\frac{x_{1}}{x_{2}} = \frac{169}{6} = 28.16$$

$$\frac{x_{1}}{x_{2}} = \frac{x_{2}}{x_{3}} = \frac{x_{2}}{x_{2}} = \frac{x_{2}}{x_{3}} = \frac{x_{2}}{x_{3}} = \frac{x_{2}}{x_{3}} = \frac{x_{3}}{x_{3}} = \frac{x_{3}}$$

d/e S1 > S2

conclusion. The tabulated value of Fat N, = 6-1 and N2 = 7-1 diftor = V. level of signsificance is 4.39

Since the tabulated value of F i's greater than
the Calculated value Ho i's accepted 2're
those is no szignzifz'cant dzitterence the
varzance zie the samples have been
drawn from the normal population
by the same varzance.

Osolo since have $\bar{x}_1 = 67.5$ and $\bar{x}_2 = 68.0$ 0.2 + 10.00 and 0.2 = 0.00 0.2 + 10.00

ए	The state of the s
	X Z S = 5.5 6 = 5
	let & = 5%
	z - S - 8 ~ N(0,1)
	2- S-ONN(0,1)
	= 5.5-5 _E 2
	5/1400
	Table value ZX = 1.96
	tince >= 2>1.96 Relieuf Ho
	the population Aug.
	the DODY1972'04 Aug.

© 5017: 12 X be the Sample mean of an (29ndom sample of size u) they $x - N(u, 4^{2}h)$ y = 0.98 y =

@ Soly :- Here n=64 = 32 4 = 38 Ito: The Sample is alpanous from a population with with resease 의 = 38 升, : 4 # 38 Under Ho, $\frac{7-24-32-38}{(5.8)}$ $= -(6 \times 16 \% \times 10) = -6 \times .27$ b,e |7| = 8.27 conclution. since the Calculated value of 121>1.36 the significant value of 2 of 5% level of significance Ho is befored e've the sample is not drawn from the population with mean 38 xx average 12te spance is less thay 40 Aus. 1 soly: - Ho: 62 = (0.022)2 = 4.84 × 10-4 12 = 18 52 = 0.000 324 = 3.24 × 167 H; 6 \$ 0.022 $\chi^2 = (9-1) s^2$ = [(18-1) (8.24) X 10-4] Table value $\chi^{2}(0.05) = 27.59 > 11.38$ Hence Ho i's accept Aus

3 201% HERE N = 12 $s = 7^3 \Rightarrow s^2 = (.7)^2$ G= 7.6 => 62 = (1.6)2 $\frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}$ Table value of x2 (0.05) = 12.6 since 12.6>5.09 Hence Ho is accepted. 5019: Here 2=100 = 80 S=10 9 71 = 48 cm The sample i's drawn from a population with mean 18 H. : U 778 Under z = 2-01 = 80-78 = -2
Ho Str 10/100 2/12 | = 2 Conclusions since 121= 2>1.36 the Significant value of 2 at 5% level of eigusticance. Ho is rejected size the sample is not draw from the population with mean 78 Aus

(a) solv; Gyzvey Ho &
$$61^2 = 62^2$$

This $61^2 + 62^2$ at $0 = 601$

Where $31^2 = 61^2 = 62^2$
 $31^2 = 3.89$, $52^2 = 4.02$
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(10) SO 1 12 8-

(13) 5019 %- HERE N = 100

S = 15

X = 116 , M = 120

Ho: There is no szighzifzicant dibberence

between X AM

under Ho

 $x = 57 - 9 = (116 - 120) = -4 \times 10$ $5/\sqrt{2} = (15/10) = 15$

= -2.66

2/12 /21 = 2.66

Conclusions. As the calculated value of 1×1>1.96
at 5% level of Szignificance. Ho i's Referred
2, e dictation at the sate of 120 words can
not possible. Ans.