Chi-Square Assignment

$$\chi^2 = \frac{(06-ex)^2}{ex} = \frac{16}{400} + \frac{400}{400} + \frac{0}{400} + \frac{576}{400}$$

$$\chi^2 = 2.480$$

.: Hull & accepted. Suit are equally likely.

0 01.00	1 .1- 100 -	1 10 4 10
	observed	enpected
spades	404	400
Hearts	420	400
Dismords	400	400
Clubs	356	400
Tokey	82	62

$$\chi^{2} = \sum (ob - cxp)^{2} = 12.680$$

aitical (DF=4, × 20.05) = 9.488 .: Null & rejected.

Espected No. of Joley are 62.

(3) Given,

	observed	expected
Stripes	50	44
spots	41	33
Stripes spots	85	99

Gilven ratio Re 4 stripa: 3 spots: 9 stripas/spots.

Espected Stripes =
$$\frac{4}{16} \times 176 = 44$$

Espected Spots = $\frac{3}{16} \times 176 = 33$

Espected Stripes | Spots = $\frac{9}{16} \times 176 = 99$

$$\chi^2 = \frac{9}{16} \times 176 = 99$$

$$\chi^2 = \frac{9}{16} \times 176 = 99$$

Partical (DF= 2, x=0.05) = 5.991

: null is accepted. She get the predicted outcome

Expected
$$4T = \frac{9}{16} \times 994 = 559$$
 Expected $GT = \frac{3!}{16} \times 994 = 186$ Expected $4C = \frac{3}{16} \times 994 = 186$ Expected $4C = \frac{3}{16} \times 994 = 62$
 $3^2 = \frac{5(0b-ux)^2}{25} = 0.312$

2 withcol (DF=3, x=0.05) =7.815.

. null be accepted, gence amont independently.

(5) observed expected
$$(0-\epsilon)^{7} = 0$$

A 262 220 8.01

B 234 220 0.89

C 204 220 1.16

D 190 220 4.09

E 210 220 0.45

$$\chi^{2} = \sqrt{(0-\epsilon)^{2}} = 14.6$$

12 (OFU, 2=0.05) = 9.488

i mull for rejected. Shoppey do not prefer each of five states equally