125 **59 14 3 1**

5. Fit a Binomial distribution to the given data and find the theoretical frequencies:

X: **O** 1 2 3 4
f: 28 62 46 10 4

Turn over

2 C 62102

6. The following data relates to marital status and performance in examinations. Check whether the two are independent?

Performance

	Good	Bad		
Married	60	80		
Unmarried	20	40		

7. Three types of rations experimented on rats gave the following weight gains:

Rations	R1	4	16	10
	R2	14	18	19
	R3	3	14	7

Check whether the three rations differ significantly in their effect.

8. Fit a straight line of the form y = a + bx to the given data:

X	0	1	2	3	4	
Y	0	1 8	3 3	4 5	6.3	

9. The following figures gives the heights of fathers and sons :—

Ht of father	:	65	66	67	67	68	69	71	73
Ht of son		67	68	64	68	72	70	69	70

Obtain the equations to the two regression lines.

10. The following data gives the ages of husbands and wives. Find the correlation coefficient:

Age of Husband: 23 27 28 29 30 31 33 35 36 39

Age of wife 18 22 23 24 25 26 28 29 30 32