

(6)

Or

- (b) The following table gives the ages and blood pressures of 10 women :

Ages (X)	56	42	36	47	49
Blood pressures (Y)	147	125	118	128	145

Ages (X)	42	60	72	63	55
Blood pressures (Y)	140	155	160	149	150

Estimate the regression equation
 $Y = a + bX$.

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7. (a) Compute (i) Laspeyres and (ii) Fisher's index numbers for the current year from the following data. Also show that Fisher's method satisfies time reversal test :

$$4+5+2=11$$

Commodity	Quantity		Price	
	1995	2000	1995	2000
A	8	6	20	40
B	10	5	50	60
C	15	15	40	50
D	20	25	20	20

Or

- (b) (i) Explain the problems of construction of index numbers.

(7)

- (ii) In the following series of index number, shift the base from 1990 to 1993 :

Year	1990	1991	1992	1993
Index number	100	105	110	125

Year	1994	1995	1996	1997
Index number	135	180	195	205

$$5+6=11$$
