Ques (1) Calculate Price index numbers from the following data

(I) Laspeyre's Method (II) Passche's method (III) Fisher's method

	9208	year	custent year	8 1 / 1 1 1
formodity	Price	Quantity	Expenditure	Quantity
A	6	50	560	66
В	2	100	240	120
\ c	4	60	360	60
0	10	30	288	24
E	8	40	482	36

Expenditure = Price x Quentig

commodity	Þ.	90	19 9 1	2,	Pi	P080	1001	P120
A	6	50	560	56	10	300	336	500
7	2	100	240	120	2	200	240	200
8	4	60	360	60	6	240	240	360
C	10	30	288	24	+/13	300	240	360
E.	8.	40	432	3	6	2 320	288	480
	1	1	ZÞR, = 1880			Σþ.90 = 1360	E 1344	IPAC =190

(I) Las beson's Poice Index:
$$P_{01} = \frac{\sum p_1 p_0}{\sum p_0 p_0} \times 100 = \frac{1700}{1360} \times 100$$

$$= \frac{170}{136} \times 100 = 1.3970 \times 100$$

$$P_{01} = 139.70$$

$$=\frac{170 \times 100}{136} \times 100 = 1.3970 \times 100$$

$$P_{01} = 189.70$$

Ques (2) From the following data calculate unisch's Price Indez

Annin's	B95	e year	Custen	t year
Commodity	Police	Quantity	Price	Quantity
A	10	100	12	150
В	8	80	.10	100
С	5	60	10	72
۵	24	30	81	33

Golution:

commodity	Po	90	PI	21	2021	12021	AN8081	A FLOU
A'	10	100	12	150	15,000	122.47	1224-70	1469.64
003	8	80	io	100	8000	89.44	715-52	894-40
. <u>8</u>	5	60	01-	72	4320	6593	328-65	657
Ь	24	30	18	33	990	31-46	755-04	302.
		9. 1.7	Ĉ I	A C W		5	2 Po. Fo. 8 =30234	3587

Walsch's Price Index
$$P_{01} = \frac{\sum b_1 \sqrt{2021}}{\sum b_0 \sqrt{2021}} \times 100$$

$$= 3587.62$$

= 1.1864×100=118.64 Ans

Ques (3) From the following data calculate Kelly's Poice Index for 2005 using 2000 as the base period

Commodity	Quantity Consumed	Paic	e in IRN	
Organico. J		2000	2005	
Asserted	10	140	180	
6 -44-	7	400	550	
c	6	100	250	
		12.5	150	
ε		2.00	300	

Solution:

Commodify	. 2	þo	PI	Poq	bie
A *****	10	140	180	1400	1800
В	7	400	,550	2800	3850
c	6	100	250	600	1500
P	8	125	150	1000	1200
Ε	4	200	300	800	1500
			-	6600	9550
		the section of		14	470 N
				IPO ?=	6600

Kelly's Price Index =
$$\frac{\sum p_1 2}{\sum p_0 2} \times 100 = \frac{9550}{6600} \times 100$$

= 144 7×100

= 14407 Ans