

Year	Winter	Summer	Monsoon
2001	40	50	35
2002	45	55	35
2003	42	60	40
2004	55	55	50
2005	60	70	45

- Q-3 (B) Fit a straight line to the following data and estimate the production of 1966.

[08]

Year	1960	1961	1962	1963	1964
Production	40	50	62	58	60

- Q-4 (A) Define index number and write the uses and limitations of index number. [07]
- Q-4 (B) From the following data calculate Laspeyres's, Paasche's and Fisher's index number. Also prove that the Fisher's index number satisfies the time Reversal test and factor Reversal test. [08]

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	6	50	10	56
B	2	100	2	120
C	4	60	6	60
D	10	30	12	24
E	8	40	12	36

OR

- Q-4 (A) Following information is given by taking 2005 as base year, find new index number by taking 2015 as base year. [07]

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Index Number	100	103.2	110.7	115.4	122.6	135.3	148.9	163.3	170.1	176.8	182.4	195.0

- Q-4 (B) Explain TRT and FRT. Give their conditions. Also compute Fisher's index number if Laspeyres and Paasche's index numbers are 121 and 125 respectively. [08]

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