

PanerCode:1007

Date: 2-12-2024

LGS GROUP OF COLLEGES

MT-3

Roll No.

TEST#

WEEKLY TEST # MT3-Business Statistics/XII [I. Com]
TOPIC [Ch. # 4]

	F	C.1007	Name:						
	Max. Marks: 35		Objective + Subjective			T i	i me: 60	min	
						•			
		_	SECTION-I	OBJECTI				_	
		_	ible answer A, B, C ai	_					_
			rrect, fill that circle i	-					
			ok. Cutting or filling	two or more ci	rcles will	result in			
	q	uestion.					(9 ×	1 = 9)
1)	In chain base method, the base period is								
	(a)	Fixed		(b)	Constant				
	(c)	Not fixed		(d)	Zero				
2)	The m	ost suitable	e average for index numb	oer is					
	(a)	A.M		(b)	G.M				
	(c)	Mode		(d)	Median				
B)	Price relative is percentage ratio of current year price and								
	(a)	Base year	price	(b)	Base year o	quantity			
	(c)	Preceding	year price	(d)	None of the	ese			
I)	Fisher index number is called index number.								
	(a)	Bogus		(b)	Nominal				
	(c)	Ideal		(d)	CPI				
5)	Index	for base p	period is:						
	(a)	1		(b)	100				
	(c)	Fix		(d)	None of a	11			
5)	A base year should be free from:								
	(a)	Floods		(b)	Strikes				
	(c)	Wars		(d)	All of abo	ve			
7)	If Las	If Laspayre's index = 116 and Paascha's index number = 110. Than Fisher index is:							
		110.96		(b)	116.0				
	(c)	113.69		(d)	112.96				

9) If all the values are not of equal importance, the index number is called:

When price of year is divided by the price of the preceding year, price we get:

(a) Simple index number

(a) Value index

(c) Simple index

8)

(b) Composite index number

(b) Link relative

(d) Volume index

(c) Unweighted index number

(d) Weighted index number



SECTION-II

SUBJECTIVETYPE

Part-I

2. Write short answers to questions.

 $(7 \times 2 = 14)$

- i) What is un-weighted index number?
- ii) Note down four uses of the index number.
- iii) Define quantity index number.
- iv) $\Sigma P_0 q_0 = 3000$, $\Sigma P_1 q_0 = 4300$, $\Sigma P_1 q_1 = 4890$ and $\Sigma P_0 q_1 = 4100$, find fisher index number.
- v) Give that $P_0 = 4, 4, 3$ $q_0 = 70, 75, 80$ find ΣW .
- vi) Distinguish between simple and composite index numbers.
- vii) Write difference between fixed and chain base method.

Part - II

Note: Attempt all questions.

 $(4 \times 3 = 12)$

3. Calculate index numbers for years for 2018, 2019, 2020 and 2021 by taking 2018 as base using Median as an average:

Voors	Prices				
Years	Wheat	Rice	Cotton	Ghee	
2018	12	3	4	4	
2019	12	3	4	4	
2020	13	3	5	4	
2021	15	3	5	5	

Q4. The average annual prices of four commodities for the year 1990 to 1993 are given in the following table. Construct price index numbers with 1990 as base mean as an average.

Year	Average Annual prices					
Teal	A	В	С	D		
1990	1.50	1.20	2.80	3.50		
1991	1.75	1.40	3.00	4.20		
1992	2.00	1.50	3.25	4.50		
1993	2.25	1.60	3.40	4.75		

Q5. Construct price index number for year 2000 on the base of year 1990.

Item	1990		2000		
	quantity	Price	Quantity	price	
A	3	70	4	75	
В	5	80	6	90	
С	8	40	10	55	
D	10	50	12	60	

Find:

- i) Laspayers' I.N
- ii) Paaschs I.N
- iii) Fisher