

Shri Harihar Pratishtan's
Govindlal Kanhaiyalal Joshi
(Night) Commerce College, Latur
Assignment Summer – 2023-24

Class :- B.com FY Sem – II

Subject :- Business Statistics & Mathematics

Q:1 Construct the Fisher's Ideal Index number of price from the following information and show how is satisfies the time reversal test:

Commodity	2021		2022	
	Price	Quantity	Price	Quantity
A	6	40	10	50
B	4	70	5	60
C	7	80	10	70
D	10	90	12	80
E	15	60	16	55

Q:2 IF....

$$A = \begin{bmatrix} 4 & 6 & 8 \\ 6 & 3 & 2 \\ 3 & 7 & 4 \end{bmatrix}, B = \begin{bmatrix} 5 & 4 & -4 \\ 4 & 2 & 1 \\ 3 & 3 & 6 \end{bmatrix}, C = \begin{bmatrix} 7 & 6 & 2 \\ 3 & 4 & 7 \\ 4 & 2 & -1 \end{bmatrix}$$

Solve:

i) $A+B+C$

ii) $2A+2B-C$

Q3. A bag contains 9 green balls, 6 yellow and 5 blue balls, Three balls are drawn at random. What is the probability that one ball is yellow and other two balls are green.

Q4. Find the compound interest of the amount Rs. 90,000 at 5% per annum for four years.

Q5. Find the value:

i. ${}^{12}C_4$

ii. ${}^{16}P_8$

Q6. An agent received Rs. 3,200 as commission on the sale of property. If the amount for which the commission was obtain was Rs. 40,000. Find the rate percentage of commission.