

ANAND COMMERCE COLLEGE

ASSIGNMENT – B.COM. SEM – III

SUB : BUSINESS MATHEMATICS & STATISTICS-III (UB03MDCOM01)

2024 – 25

Q:1 Define correlation and explain scatter diagram method [CO1]

Q:2 Solve the following problem by karl pearson method. [CO2]

X	23	27	28	29	30	31	33	35	36	39
Y	18	22	23	24	25	26	28	29	30	32

Q:3 Define index number and give its application [CO3]

Q:4 Solve the following problem by I_L , I_P , I_F , I_{D-B} and I_{M-E} [CO2]

Item	Base Year		Current Year	
	Price	Quantity	Quantity	Price
M	3	5	4	6
O	6	6	5	8
X	4	7	3	10

Q:5 Calculate 3 yearly and 5 yearly moving average from the following time series [CO2]

Year	2001	2002	2003	2004	2005	2006	2007
Production	12	15	18	16	20	24	22
Year	2008	2009	2010	2011	2012	2013	2014
Production	25	28	26	30	34	32	34

Q:6 Obtain straight line equation from the following time series and estimate profit for the year

2023. [CO2]

year	2014	2015	2016	2017	2018	2019	2020	2021
Profit (in lakh)	38	40	65	72	69	60	87	95