

Trimester: Sep-Dec 24 Maximum Marks: 50 Examination: End Term Examination Date: 15 Jan 2025 Duration: 3 hours Computer Lab: 203				
Programme code: 01 Programme: MBA-BE- Minor	Class: SY	Trimester: V		
College: K. J. Somaiya Institute of Management	Name of the department/Section/Center: Economics			
Course Code: 217P01M534	Name of the Course: Econometrics			
Instructions: a) Download and keep with you all data files ready to answer questions. b) Keep e-views software ready to be used to answer questions. c) Estimate and "copy paste" output and write the interpretation as per the que ination department. Write the question numbers properly, and upload as a single file complexity of the set of the s	estion in MS Word. Name the taining all the five answers.	e Word file as per the format given by the exam-		

Note: Answer any FIVE of the following questions. All questions carry equal marks (10).

Question No.		
		10
Q.1	Estimate the equation Consumption and Savings Functions using data file Q1 by taking	10
	Consumption and Savings as dependent variable and GDP as independent variable.	
	Interpret the results.	
	$\begin{array}{l} \textbf{d} Y_1 = \textbf{B} 0 + \textbf{B} 1 \text{ GDP} + \boldsymbol{\varepsilon} i \\ \textbf{L} \end{array}$	
	D) $Y_2 = B0 + B1 GDP + \varepsilon i$	
	Y1 = Consumption $Y2 = Saving$	
Q.2	Estimate three functions linear, lin-log, log-lin using data (passenger cars, LCV and two wheeler) given in Q2 data file. Interpret the results of the equa-	10
	tions, Estimate descriptive statistics and plot graphs for each variable.	
	a) $Y = \beta 0 + \beta 1$ Trend + ϵi	
	b) $\log y = \beta 0 + \beta 1 \text{ Trend} + \epsilon i$	
	C) $Y = \beta 0 + \beta 1 \text{ Log (Trend)} + \epsilon i$	
	Y - Passenger cars - Dependent Variable	
	Trend - Independent Variable	
Q.3	Estimate AR 3 model using sales and advertisement data file Q3	10
	$Y = \beta 0 + \beta 1 X + \epsilon i$	
	Y Sales = Dependent Variable	
	X Advt exp = Independent Variable	
Q.4	Estimate equation to find out the relationship between the Covid-19 cases and Stock Market returns and test for Autocorrelation using Q4 data file	10
	$Y = B0 + B1 X1 + B2DV + \epsilon i$	
	Y = BSE/NSE	
	XI = Covid Cases	
0.5	Dv – Dummy variable Taking the data of OS estimate double log function using GDP as dependent variable and GED as independent variable	10
Q.3	ranng ur und of Q5 commun under log function using ODF as uppendent variable and OFD as independent variable.	10
	$Log Y = \beta 0 + \beta 1 log X + \epsilon i$	
	Y = GDP Dependent Variable	

	X = GFD Independent Variable	
Q.6	Using the data given in Q6 data file on stock market indices, plot graphs, compute return and estimate correlations and descriptive statistics.	10