



SOMAIYA

VIDYAVIHAR UNIVERSITY

Somaia School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science (Economics)	SEM: IV
	OCT/NOV-2023

Sr. No.	Subject	Available
1.	131U01C503 – Basic Econometrics (A)	
2.	131U01C503 – Basic Econometrics (B)	
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		



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Semester (July 2023 to October 2023)		
Examination: End Semester Examination October/November 2023 (UG Programmes)		
Programme code: 01		Class: SY
Programme: BSC Eco		
Name of the Constituent College: S K Somaiya College		Semester: IV
Course Code: 131U01C503	Name of the Department: Economics	
Duration: 2 Hrs.	Name of the Course: Basic Econometrics	
	Maximum Marks: 60	
Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary 3)		

Question No.		Max. Marks	Co mapping																						
Q.1	Full-Length Question																								
	A) Explain the methodology adopted in econometrics.	8	1																						
	B) Elaborate nature and sources of data in economic analysis.	7	1																						
	OR																								
	Full-Length Question																								
	C) Describe the significance of stochastic disturbance term.	8	2																						
	D) Explain the co-efficient of determination that is R^2 .	7	2																						
Q.2	Full-Length Question																								
	A) Calculate β_1 , β_2 , R^2 and R from following weekly family consumption expenditure Y (\$) and weekly family income X((\$).	8	2																						
	<table><tr><td>X_i</td><td>80</td><td>100</td><td>120</td><td>140</td><td>160</td><td>180</td><td>200</td><td>220</td><td>240</td><td>260</td></tr><tr><td>Y_i</td><td>70</td><td>65</td><td>90</td><td>95</td><td>110</td><td>115</td><td>120</td><td>140</td><td>155</td><td>150</td></tr></table>	X_i	80	100	120	140	160	180	200	220	240	260	Y_i	70	65	90	95	110	115	120	140	155	150	7	2
	X_i	80	100	120	140	160	180	200	220	240	260														
	Y_i	70	65	90	95	110	115	120	140	155	150														
	B) Elaborate the T test in short.	8	3																						
	OR	7	3																						
	Full-Length Question																								
	C) Describe that the log linear model in short		3																						
	D) Explain the difference between multiple co-efficient of determination on R^2 and multiple co-efficient of co-relation R.		3																						
Q.3	Full-Length Question																								
	A) Describe the difference between R and adjusted R^2	8	4																						
	B) What are the uses of dummy variables in seasonal analysis?	7	4																						
	OR																								
	Full-Length Question																								
	C) Explain that the dummy variable as alternative to chow test.	8	4																						
D) Describe the piece wise linear regression in short.	7	4																							
Q.4	Conceptual questions (Any 3)	15																							
	A) Methods of ordinary least squares		1																						
	B) Gauss Markov Theorem		2																						
	C) Hypothesis testing		2																						
	D) Regression with origin		3																						
	E) Interaction effects using dummy variables		4																						



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Semester (July 2023 to October 2023)		
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Programme code:01 Programme: SYBSC Eco	Class: SY	Semester: IV
Name of the Constituent College: S K Somaiya College		Name of the Department: Economics
Course Code: 131U01C503	Name of the Course: Basic Econometrics	
Duration: 2 Hrs.	Maximum Marks: 60	
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)		

Question No.		Max. Marks	CO attainment
Q.1	Full-Length Question		
	A) Explain methodology adopted in basic econometrics.	7	1
	B) Critically examine the population regression function	8	1
	OR		
Q.2	Full-Length Question		
	A) Explain internal estimation in short	7	2
	B) What is the χ^2 test? Explain	8	2
	OR		
Q.3	Full-Length Question		
	A) What is the difference between R^2 and adjusted R^2	8	3
	B) What is the chow test? Explain with an example.	7	3
	OR		
Q.4	Full-Length Question		
	C) Examine the interaction effect using dummy variable.	8	3
	D) What is the piece wise linear regression? explain	7	3
	OR		
Q.4	Conceptual questions (Any 3)	15	
	A) Econometrics require separate discipline		1
	B) Standard errors of least squares estimates		1
	C) Normality assumption		2
	D) Levels of significance		3
	E) Regressions on standardized variables		4