

SOMAIYA

VIDYAVIHAR UNIVERSITY

Somaiya 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) + C	
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Semester (July 2023 to October 2023)

Examination: End Semester Examination October/November 2023 (UG Programmes)

Programme code: 01

Programme: BSC Eco

Name of the Constituent College: S K Somaiya College

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)

Questio		N.S.	
n No.		Max. Marks	1
Q.1	Full Y and O. d.	1,14116	mappi ng
ζ.,	Full-Length Question A) Explain the method of the second		<u> </u>
	A) Explain the methodology adopted in econometrics. B) Eighorate pattre and courses of the	8	1
	B) Eiaborate nature and sources of data in economic analysis.	7	
	Full-Length Question OR		l
	C) Describe the significance of stochastic disturbance to the		
	D) Explain the co-efficient of determination that is R ² .	8 7	2
Q.2	Full-Length Question	'	2
Ç	A) Calculate R R D2 and D C C C C		
	A) Calculate β ₁ , β ₂ R ² and R from following weekly family consumption expenditure Y (5) and weekly family income X((5).	8	2
	11 Ai 180 1100 1120 1140 1160 100 100 100	7	2
	Yi 70 65 90 95 110 135 200 220 240 260	İ	
	110 113 120 140 155 150		
	B) Elaborate the T test in short.	8	3
	OR	1	3
Ì	Full-Length Question		Į
į	C) Describe that the log linear model in short		3
1	D) Explain the difference between multiple co-efficient of determination on R ² and multiple co-efficient of as relation R		3
	R ² and multiple co-efficient of co-relation R.		
Q.3	Full-Length Question		
	A) Describe the difference between R and adjusted R ²	o	
	B) What are the uses of dummy variables in seasonal analysis?	8	4
1		<i>'</i>	4
ĺ	Full-Length Question]
	C) Explain that the dynamic state	j	İ
	C) Explain that the dummy variable as alternative to chow test. D) Describe the piece wise linear regression in short.	8	4
	proce wise inteal regression in short.	7	4
.4	Conceptual questions (Any 3)		
4	A) Methods of ordinary least squares	15	1
1 1	b) Gauss Markov Theorem	İ	1
- 10	C) Hypothesis testing	1	2
Į	D) Regression with origin		2
1	E) Interaction effects using dummy variables		3 4
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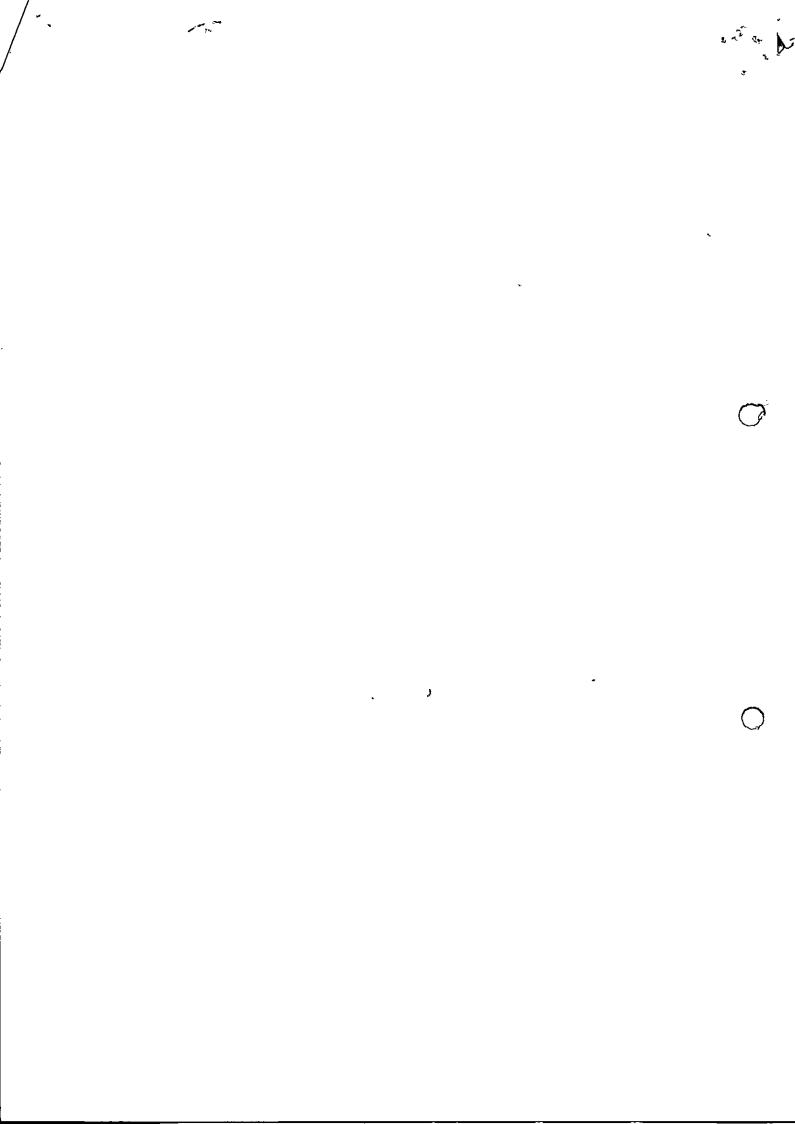




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Ser	nester (July 2023 to Oc	tober 2023)	
Examination: End Semeste	r Examination October	/November 20	023 (UG Programmes)
Programme code:01 Programme: SYBSC Eco		Class: SY	Semester: IV
Name of the Constituent College	: S K Somaiya College	Name of th	he Department: Economics
Course Code: 131U01C503	Name of the Course: Basic Econometrics		
Duration: 2 Hrs.	Maximum Marks: 60		
Instructions: 1)Draw neat diagra			sarv 3)

Questio n No.		Max. Marks	CO attain ment
Q.1	Full-Length Question		
	A) Explain methodology adopted in basic econometrics.	7	1
	B) Critically examine the population regression function	8	1
	OR		1
	Full-Length Question		
	C) What are the assumptions of classical linear regression model?	8	1
	D) Write a note on co-efficient of determination i.e R ²	7	1
Q.2	Full-Length Question		<u>-</u>
	A) Explain internal estimation in short	7	2
•	B) What is the χ² test? Explain	8	2
	OR		-
	Full-Length Question		
	C) What is the log linear model? Explain.	8	2
	D) Explain the hypothesis testing with confidence interval approach.	7	2
	11		-
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		
	Full-Length Question .		
	C) Examine the interaction effect using dummy variable.		
	D) What is the piece wise linear regression? explain	8	3
		7	3
Q.4	Conceptual questions (Any 3)	15	
,	A) Econometrics require separate discipline		l _I
	B) Standard errors of least squares estimates		1
	C)Normality assumption		2
	D) Levels of significance		3
	E) Regressions on standardized variables		4







Semester (July 2023 to October 2023)

Examination: End Semester Examination October/November 2023 (UG Programmes)

Programme code:01

Programme: BSC Eco

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)

Questio n No.		Max. Marks	CO Mappi
Q.1	Full-Length Question A) Explain the nature and sources of data for economic analysis. B) Examine the significance of stochastic disturbance term. OR	8 7	i 1
	Full-Length Question C) Explain the co-efficient of determination that is R ² . D) Discuss sample regression function.	8 7	1 2
Q.2	Full-Length Question A) Explain hypothesis testing with confidence interval approach B) Calculate β_1 , β_2 R ² and R from following weekly family consumption expenditure Y (\$) and weekly family income X(\$). X 6 7 8 9 10 11 12 13 14 15 16 17 18 Y 4.4 5.7 5.9 7.3 7.3 6.5 7.8 7.8 11 10 10 13 13 5 7 7 3 1 8 1 3 02 67 83 61 53	8 7	2 2
	OR Full-Length Question C) Write note on F test? D) What is the reciprocal model? explain	8	3
Q.3	Full-Length Question A) Describe the polynomial regression model B) Explain the cautions in use of dummy variable	8. 7	3 3
	OR Full-Length Question C) What are the uses of dummy variable in seasonal analysis? D) Describe piece wise linear regression in short.	8 7	4
Q.4	Conceptual questions (Any 3) A) Measurement scales of variables B) Gauss Markov Theorem C) Interval estimation D) Normality test E) Regression on standardized variables	15	1 2 3 4

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