



SOMAIYA

VIDYAVIHAR UNIVERSITY

Somaia School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science (Economics)	SEM: II
	APR-2024

Sr. No.	Subject	Available
1.	Modern Microeconomics	
2.	Theory & Policy	
3.	231U31I104 - Economics For Statistics II	
4.		
5.		
6.		
7.		
8.		
9.		
10.		



LIBRARY



SOMAIYA
VIDYAVIHAR UNIVERSITY



April 2024		
Examination: End Semester Examination (UG/PG Programmes)		
Programme code: Programme: Bsc Economics	Class: FY	Semester: II
Name of the Constituent College: S K Somaiya	Name of the Department: Economics	
Course Code:	Name of the Course: Modern MicroEconomics	
Duration : 2 Hr.	Maximum Marks : 60	
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)		

Question No.		Max. Marks	CO
Q1	A) Explain the short run and long run equilibrium of a firm under perfect competition.	(8)	CO1
	B) What is Prisoner's Dilemma? Explain.	(7)	
	OR		
	C) Explain the Games Theory in Detail.	(8)	
	D) Give the features of oligopoly.	(7)	
Q 2	A) Explain the derived demand of labor in detail.	(8)	CO2
	B) Write a brief about Demand for Labor in Short run.	(7)	
	OR		
	C) Explain the equilibrium in Labor Market.	(8)	
Q 3	D) Elaborate on Bilateral Monopoly and Monopsony.	(7)	CO3
	A) Define Economic Efficiency. Explain three conditions to achieve the efficiency	(8)	
	B) Explain the property right and Coase Theorem.	(7)	
	OR		
	C) Explain Externality and implications on Public Goods.	(8)	
Q4	D) Elaborate on Edgeworth Box and Contract curve in detail.	(7)	CO4
	Answer any 3 of the following.	(15)	
	A) Efficiency Wage Theory.		
	B) Moral Hazard		
	C) Market for Lemons		
	D) Signaling		
	E) Principle-Agent Problem		



SOMAIYA
VIDYAVIHAR UNIVERSITY



April 2024

Examination: End Semester Examination (UG/PG Programmes)

Programme code: Programme: Bsc Economics		Class: FY	Semester: II
Name of the Constituent College: S K Somaiya		Name of the Department : Economics	
Course Code:	Name of the Course: Macro Policy: Theory and Policy		
Duration : 2 Hr.	Maximum Marks : 60		
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)			

Question No.		Max. Marks	CO
Q1	A) Give the Golden rule of capital accumulation. B) Critically analyze the concept of Economic growth and development. OR C) Explain the Harrod Model in detail. D) Give a brief on Domer Model.	(8) (7) (8) (7)	CO1
Q 2	A) Give a note on the qualitative measures of Credit Control B) Write a brief on foreign reserve management by RBI. OR C) What is th How do the Monetary policy committee manage the inflation targeting. D) What are the Quantitative measures of Credit Control? What is the significance of Credit Control?	(8) (7) (8) (7)	CO2
Q 3	A) Elaborate on Debt trap in detail. B) Write a note on financial devolution in India and parameters considered. OR C) Discuss the principles of taxation in detail. D) Distinguish between Indirect tax and direct tax.	(8) (7) (8) (7)	CO3
Q4	Answer any 3 of the following. A) Environmental conservation and development B) Measures to reduce inequality C) UNDP's Sustainable development goals D) Measures to regional imbalances E) Inclusive Growth	(15)	CO4



SOMAIYA
VIDYAVIHAR UNIVERSITY



April 2024

Examination: End Semester Examination April 2024 (UG/PG Programmes)

Programme code:

Programme: B.SC Economics

Class: FYBSC

Semester: II

Name of the Constituent College: S K Somaiya College

Name of the Department: Economics

Course Code: 231U31I104

Name of the Course: Economics for Statistics -II

Duration: 2 Hrs.

Maximum Marks: 60

Instructions: 1) Draw neat and clear diagrams with pencil whenever necessary 2) Assume suitable data if necessary 3)

Question No.		Max. Marks	CO																				
Q.1	a. Find The MLE of Normal Distribution	07	CO1																				
	b. Set up analysis of variance table for the following Two Way ANOVA Varieties of seeds	08	CO1																				
	<table><tr><td>Varieties of fertilizers</td><td>A</td><td>B</td><td>C</td></tr><tr><td>W</td><td>6</td><td>5</td><td>5</td></tr><tr><td>X</td><td>7</td><td>5</td><td>4</td></tr><tr><td>Y</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z</td><td>8</td><td>7</td><td>4</td></tr></table>	Varieties of fertilizers	A	B	C	W	6	5	5	X	7	5	4	Y	3	3	3	Z	8	7	4		
	Varieties of fertilizers	A	B	C																			
	W	6	5	5																			
	X	7	5	4																			
Y	3	3	3																				
Z	8	7	4																				
OR																							
c. Find the MLE of Exponential Distribution	07	CO1																					
d. The results obtained in a sample survey of 200 TV viewers on the opinion about TV Programmers are given below	08	CO2																					
	<table><tr><td>Gender</td><td>Entertaining</td><td>Education</td><td>West of time</td></tr><tr><td>Male</td><td>52</td><td>28</td><td>30</td></tr><tr><td>Female</td><td>28</td><td>12</td><td>50</td></tr></table>	Gender	Entertaining	Education	West of time	Male	52	28	30	Female	28	12	50										
Gender	Entertaining	Education	West of time																				
Male	52	28	30																				
Female	28	12	50																				
	Is this evidence convincing that there is an that there is an association between gender and opinion ? at 5% l.o.s																						
Q.2	a. Find MGF and Mean, Variance of Poisson Distribution	07	CO2																				
	b. The Mean height obtained from a random sample of size 100 is 64 inches. The standard deviation of the distribution of height of the population is known to be 3 inches. Test the statement that the ,mean height of the population is 67 inches at 5% l.o.s	08	CO2																				
	OR																						
	c. Find MGF and Mean, Variance of Normal Distribution	07	CO 4																				

	d. The following table gives the yields on 15 samples plots under three varieties of Seeds <table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>20</td><td>18</td><td>25</td></tr><tr><td>21</td><td>20</td><td>28</td></tr><tr><td>23</td><td>17</td><td>22</td></tr><tr><td>16</td><td>15</td><td>28</td></tr><tr><td>20</td><td>25</td><td>32</td></tr></table>	A	B	C	20	18	25	21	20	28	23	17	22	16	15	28	20	25	32	08	CO 4							
A	B	C																										
20	18	25																										
21	20	28																										
23	17	22																										
16	15	28																										
20	25	32																										
Q.3	a. Compute Fisher index number <table><tr><td>Commodit y</td><td>P₀</td><td>Q₀</td><td>P₁</td><td>Q₁</td></tr><tr><td>Rice</td><td>50</td><td>5</td><td>55</td><td>6</td></tr><tr><td>Wheat</td><td>25</td><td>10</td><td>42</td><td>12</td></tr><tr><td>Oil</td><td>65</td><td>3</td><td>85</td><td>7</td></tr><tr><td>Sugar</td><td>26</td><td>6</td><td>35</td><td>8</td></tr></table>	Commodit y	P ₀	Q ₀	P ₁	Q ₁	Rice	50	5	55	6	Wheat	25	10	42	12	Oil	65	3	85	7	Sugar	26	6	35	8	07	CO 3
	Commodit y	P ₀	Q ₀	P ₁	Q ₁																							
	Rice	50	5	55	6																							
	Wheat	25	10	42	12																							
	Oil	65	3	85	7																							
Sugar	26	6	35	8																								
	b. Find 3 Yearly Moving Averages for the following data <table><tr><td>Year</td><td>Production</td></tr><tr><td>2008</td><td>68</td></tr><tr><td>2009</td><td>62</td></tr><tr><td>2010</td><td>61</td></tr><tr><td>2011</td><td>63</td></tr><tr><td>2012</td><td>65</td></tr><tr><td>2013</td><td>68</td></tr><tr><td>2014</td><td>63</td></tr><tr><td>2015</td><td>67</td></tr></table>	Year	Production	2008	68	2009	62	2010	61	2011	63	2012	65	2013	68	2014	63	2015	67	08	CO 3							
Year	Production																											
2008	68																											
2009	62																											
2010	61																											
2011	63																											
2012	65																											
2013	68																											
2014	63																											
2015	67																											
	OR c. Reconstruct the following series of indices using 1990 as base year <table><tr><td>Year</td><td>1986</td><td>1987</td><td>1988</td><td>1989</td><td>1990</td><td>1991</td><td>1992</td></tr><tr><td>Index</td><td>110</td><td>130</td><td>150</td><td>175</td><td>180</td><td>200</td><td>210</td></tr></table>	Year	1986	1987	1988	1989	1990	1991	1992	Index	110	130	150	175	180	200	210	07	CO 3									
Year	1986	1987	1988	1989	1990	1991	1992																					
Index	110	130	150	175	180	200	210																					
	d. Fit a straight line Trend for the following Data and hence estimate the Trend for 2005 <table><tr><td>Year</td><td>1997</td><td>1998</td><td>1999</td><td>2000</td><td>2001</td><td>2002</td><td>2003</td></tr><tr><td>Import</td><td>75</td><td>82</td><td>85</td><td>90</td><td>98</td><td>102</td><td>120</td></tr></table>	Year	1997	1998	1999	2000	2001	2002	2003	Import	75	82	85	90	98	102	120	08	CO 4									
Year	1997	1998	1999	2000	2001	2002	2003																					
Import	75	82	85	90	98	102	120																					
Q.4	Solve any 3 Of the following	15																										
Q.4	a. Properties of OLS estimator b. least square Matrix c. MGF of Geometric Distribution d. Explain Two-way Anova e. Estimator and Estimation		CO 3 CO 2 CO 1 CO 4 CO 1																									



TABLE A.2

t Distribution: Critical Values of t

Degrees of freedom	Two-tailed test: One-tailed test:	Significance level					
		10% 5%	5% 2.5%	2% 1%	1% 0.5%	0.2% 0.1%	0.1% 0.05%
1							
2		6.314	12.706	31.821	63.657	318.309	636.619
3		2.920	4.303	6.965	9.925	22.327	31.599
4		2.353	3.182	4.541	5.841	10.215	12.924
5		2.132	2.776	3.747	4.604	7.173	8.610
6		2.015	2.571	3.365	4.032	5.893	6.869
7		1.943	2.447	3.143	3.707	5.208	5.959
8		1.894	2.365	2.998	3.499	4.785	5.408
9		1.860	2.306	2.896	3.355	4.501	5.041
10		1.833	2.262	2.821	3.250	4.297	4.781
11		1.812	2.228	2.764	3.169	4.144	4.587
12		1.796	2.201	2.718	3.106	4.025	4.437
13		1.782	2.179	2.681	3.055	3.930	4.318
14		1.771	2.160	2.650	3.012	3.852	4.221
15		1.761	2.145	2.624	2.977	3.787	4.140
16		1.753	2.131	2.602	2.947	3.733	4.073
17		1.746	2.120	2.583	2.921	3.686	4.015
18		1.740	2.110	2.567	2.898	3.646	3.965
19		1.734	2.101	2.552	2.878	3.610	3.922
20		1.729	2.093	2.539	2.861	3.579	3.883
21		1.725	2.086	2.528	2.845	3.552	3.850
22		1.721	2.080	2.518	2.831	3.527	3.819
23		1.717	2.074	2.508	2.819	3.505	3.792
24		1.714	2.069	2.500	2.807	3.485	3.768
25		1.711	2.064	2.492	2.797	3.467	3.745
26		1.708	2.060	2.485	2.787	3.450	3.725
27		1.706	2.056	2.479	2.779	3.435	3.707
28		1.703	2.052	2.473	2.771	3.421	3.690
29		1.701	2.048	2.467	2.763	3.408	3.674
30		1.699	2.045	2.462	2.756	3.396	3.659
32		1.697	2.042	2.457	2.750	3.385	3.646
34		1.694	2.037	2.449	2.738	3.365	3.622
36		1.691	2.032	2.441	2.728	3.348	3.601
38		1.688	2.028	2.434	2.719	3.333	3.582
40		1.686	2.024	2.429	2.712	3.319	3.566
42		1.684	2.021	2.423	2.704	3.307	3.551
44		1.682	2.018	2.418	2.698	3.296	3.538
46		1.680	2.015	2.414	2.692	3.286	3.526
48		1.679	2.013	2.410	2.687	3.277	3.515
50		1.677	2.011	2.407	2.682	3.269	3.505
60		1.676	2.009	2.403	2.678	3.261	3.496
70		1.671	2.000	2.390	2.660	3.232	3.460
80		1.667	1.994	2.381	2.648	3.211	3.435
90		1.664	1.990	2.374	2.639	3.195	3.416
100		1.662	1.987	2.368	2.632	3.183	3.402
120		1.660	1.984	2.364	2.626	3.174	3.390
150		1.658	1.980	2.358	2.617	3.160	3.373
200		1.655	1.976	2.351	2.609	3.145	3.357
300		1.653	1.972	2.345	2.601	3.131	3.340
400		1.650	1.968	2.339	2.592	3.118	3.323
500		1.649	1.966	2.336	2.588	3.111	3.315
600		1.648	1.965	2.334	2.586	3.107	3.310
∞		1.647	1.964	2.333	2.584	3.104	3.307
		1.645	1.960	2.326	2.576	3.090	3.291

TABLE A.3 (continued)

F Distribution: Critical Values of F (5% significance level)

ν_1	25	30	35	40	50	60	75	100	150	200
ν_2										
1	249.26	250.10	250.69	251.14	251.77	252.20	252.62	253.04	253.46	253.68
2	19.46	19.46	19.47	19.47	19.48	19.48	19.48	19.49	19.49	19.49
3	8.63	8.62	8.60	8.59	8.58	8.57	8.56	8.55	8.54	8.54
4	5.77	5.75	5.73	5.72	5.70	5.69	5.68	5.66	5.65	5.65
5	4.52	4.50	4.48	4.46	4.44	4.43	4.42	4.41	4.39	4.39
6	3.83	3.81	3.79	3.77	3.75	3.74	3.73	3.71	3.70	3.69
7	3.40	3.38	3.36	3.34	3.32	3.30	3.29	3.27	3.26	3.25
8	3.11	3.08	3.06	3.04	3.02	3.01	2.99	2.97	2.96	2.95
9	2.89	2.86	2.84	2.83	2.80	2.79	2.77	2.76	2.74	2.73
10	2.73	2.70	2.68	2.66	2.64	2.62	2.60	2.59	2.57	2.56
11	2.60	2.57	2.55	2.53	2.51	2.49	2.47	2.46	2.44	2.43
12	2.50	2.47	2.44	2.43	2.40	2.38	2.37	2.35	2.33	2.32
13	2.41	2.38	2.36	2.34	2.31	2.30	2.28	2.26	2.24	2.23
14	2.34	2.31	2.28	2.27	2.24	2.22	2.21	2.19	2.17	2.16
15	2.28	2.25	2.22	2.20	2.18	2.16	2.14	2.12	2.10	2.10
16	2.23	2.19	2.17	2.15	2.12	2.11	2.09	2.07	2.05	2.04
17	2.18	2.15	2.12	2.10	2.08	2.06	2.04	2.02	2.00	1.99
18	2.14	2.11	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.95
19	2.11	2.07	2.05	2.03	2.00	1.98	1.96	1.94	1.92	1.91
20	2.07	2.04	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.88
21	2.05	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84
22	2.02	1.98	1.96	1.94	1.91	1.89	1.87	1.85	1.83	1.82
23	2.00	1.96	1.93	1.91	1.88	1.86	1.84	1.82	1.80	1.79
24	1.97	1.94	1.91	1.89	1.86	1.84	1.82	1.80	1.78	1.77
25	1.96	1.92	1.89	1.87	1.84	1.82	1.80	1.78	1.76	1.75
26	1.94	1.90	1.87	1.85	1.82	1.80	1.78	1.76	1.74	1.73
27	1.92	1.88	1.86	1.84	1.81	1.79	1.76	1.74	1.72	1.71
28	1.91	1.87	1.84	1.82	1.79	1.77	1.75	1.73	1.70	1.69
29	1.89	1.85	1.83	1.81	1.77	1.75	1.73	1.71	1.69	1.67
30	1.88	1.84	1.81	1.79	1.76	1.74	1.72	1.70	1.67	1.66
35	1.82	1.79	1.76	1.74	1.70	1.68	1.66	1.63	1.61	1.60
40	1.78	1.74	1.72	1.69	1.66	1.64	1.61	1.59	1.56	1.55
50	1.73	1.69	1.66	1.63	1.60	1.58	1.55	1.52	1.50	1.48
60	1.69	1.65	1.62	1.59	1.56	1.53	1.51	1.48	1.45	1.44
70	1.66	1.62	1.59	1.57	1.53	1.50	1.48	1.45	1.42	1.40
80	1.64	1.60	1.57	1.54	1.51	1.48	1.45	1.43	1.39	1.38
90	1.63	1.59	1.55	1.53	1.49	1.46	1.44	1.41	1.38	1.36
100	1.62	1.57	1.54	1.52	1.48	1.45	1.42	1.39	1.36	1.34
120	1.60	1.55	1.52	1.50	1.46	1.43	1.40	1.37	1.33	1.32
150	1.58	1.54	1.50	1.48	1.44	1.41	1.38	1.34	1.31	1.29
200	1.56	1.52	1.48	1.46	1.41	1.39	1.35	1.32	1.28	1.26
250	1.55	1.50	1.47	1.44	1.40	1.37	1.34	1.31	1.27	1.25
300	1.54	1.50	1.46	1.43	1.39	1.36	1.33	1.30	1.26	1.23
400	1.53	1.49	1.45	1.42	1.38	1.35	1.32	1.28	1.24	1.22
500	1.53	1.48	1.45	1.42	1.38	1.35	1.31	1.28	1.23	1.21
600	1.52	1.48	1.44	1.41	1.37	1.34	1.31	1.27	1.23	1.20
750	1.52	1.47	1.44	1.41	1.37	1.34	1.30	1.26	1.22	1.20
1000	1.52	1.47	1.43	1.41	1.36	1.33	1.30	1.26	1.22	1.19



TABLE A.4

 χ^2 (Chi-Squared) Distribution: Critical Values of χ^2

Degrees of freedom	Significance level		
	5%	1%	0.1%
1	3.841	6.635	10.823
2	5.991	9.210	13.816
3	7.815	11.345	16.266
4	9.488	13.277	18.467
5	11.070	15.086	20.515
6	12.592	16.812	22.453
7	14.067	18.475	24.322
8	15.507	20.090	26.124
9	16.919	21.666	27.877
10	18.307	23.209	29.588