SOMAIYA VIDYAVIHAR UNIVERSITY

Somaiya School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science (Economics)	SEM: II
	APR-2026

Sr. No.	Subject	Available
1.	Microeconomics	
2.	Macro Economics: Theory & Policy	
3.	Statistics for Economics II	q
4.	Indian Knowledge System	
5.		
6.		
7.		
8.		
9.		
10.		

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SOMAIYA VIDYAVIHAR UNIVERSITY

March 2026 Examination: In Semester Examination (UG/PG Programmes)		
Programme code: **Programme:**	**Class:** FY	**Semester:** II
Name of the School: SSHSS	**Name of the Department** : Economics	
Course Code:	**Name of the Course: 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	Answer following questions		
	Explain features of Monopoly competition.	7	1
	Explain short run & long run equilibrium of firm under Monopoly	8	
	OR		
	What are the characteristics of Monopolistic Competition?	7	
	2. Explain short & long run equilibrium of firm under monopolistic competition	8	
Q 2	Answer following questions		
	Examine general equilibrium under perfect competition.	7	
	Describe difference between general equilibrium and social welfare.	8	
	OR		
	1. Describe the Parato optimum equilibrium approach.	7	
	2. Describe the marginal condition of parato optimum.	8	
Q3	Answer following questions		
	1. Discuss role of government in market failure.	7	
	2. Explain market for Lemons and Adverse selection	8	
	OR		
	1.Critically Spence moral of signaling.	7	
	2. Explain principal agent model in short.	8	
Q4	Answer following questions (Any 3)	15	
	1.Features of oligopoly		1
	2. Different types of Monopoly		2
	3. General equilibrium in production.		2

	4. Problem of modern hazard 5. First theorem of welfare economics.		3 4

SOMAIYA VIDYAVIHAR UNIVERSITY

April 2026 Examination: End Semester Examination (UG Programmes)		
Programme code: 23 **Programme: bsc Economics**	**Class:** FY	**Semester:** II
Name of the School: **Somaiya School of Humanities and Social Sciences**	**Name of the Department :Economics**	
Course Code: 231U31C202	**Name of the Course: Macro Economics: Theory and Policy**	
Duration : 2 Hr.	**Maximum Marks : 60**	
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary		

Question No.		Max. Marks	Co Attainment
Q.1	Explain the Following		
A	Growing population plays significant role in development of nation ,elaborate giving suitable example.	08	01
B	Describe how foreign capital plays an important role in growth of nation.	07	01
	OR		
C	Which all types growth is been explained under Harrod's growth model.	08	01
D	Explain neo classical theory of growth with suitable examples.	07	01
Q.2	Explain the Following		
A	Write in detail objectives of monetary policy.	07	02
B	Discuss in detail quantitative techniques of credit control.	08	02
	OR		
C	How does Public debt management by RBI contribute to macro economic stability.	07	03
D	Analyze the impact of contractionary monetary policy on inflation and economic growth.	08	03
Q.3	Explain the Following		
A	Evaluate the effectiveness of fiscal policy in controlling inflation and unemployment with help of its objectives.	08	03
B	Derive IS curve.	07	04
	OR		
C	Examine the employment situation in India and the measures taken to achieve full employment.	08	04
D	What are the consequences of price instability? Discuss in detail.	07	04
Q.4	Explain the Following (any three)	15	
A	Improvement in education and its impact on growth of nation		01
B	Criticisms of Solow's model		01
C	Variable reserve requirement		02
D	Incidence of taxation		03
E	Origin and scope of Environmental economics		04

SOMAIYA VIDYAVIHAR UNIVERSITY

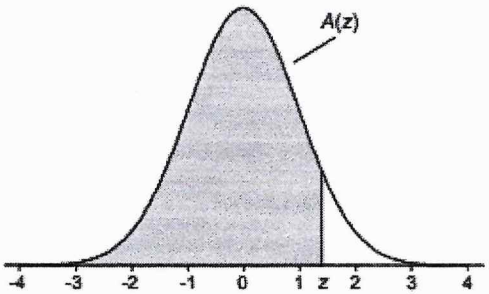
April 2026 Examination: End Semester Examination (UG Programme)		
Programme code: **Programme: Bsc Economics**	**Class: FY**	**Semester: II**
Name of the School: Somaiya School of Humanities and Social Sciences	**Name of the Department: Economics**	
Course Code:	**Name of the Course: Statistics for Economics-II**	
Duration: 2 Hrs.	**Maximum Marks: 60**	
Instructions: 1) Draw neat diagrams. 2)Assume suitable data if necessary		

Question No.		Max. Marks	Co Attainment
Q.1	Answer the following questions		
A	In a bolt factory machine, A, B, and C manufacture respectively 20%, 30%, and 50% of the total of its output. Of them 5%, 4%, and 2% respectively are defective bolts. A bolt is drawn randomly from the product and found to be defective. a. What is the probability that it was manufactured by machine B? b. What is the probability that it was manufactured by machine A?	08	01
B	If 5% of the electric bulbs manufactures by a company are defective, use a Poisson distribution to find out the probability that in a sample of 100 bulbs a. None is defective. b. 5 bulbs will be defective $[e^{-5} = 0.007]$	07	01
	OR		
C	An urn contains 7 white balls and 3 red balls. Two balls are drawn randomly from this urn. Compute the probability that neither of them is white. Find the probability of getting one white and one red. Also find the probability that both are white. Hence, compute the expected number of white balls drawn.	07	01
D	A pharmaceutical company maintains that the mean time for drug to take effect is 24minutes. In a sample of 400 trails, the mean time is 26 minutes with standard deviation is 4 mins. Test the hypothesis at 0.05 and 0.01 level of significance.	08	03
Q.2			
A	Explain the characteristics of a good estimator.	07	03

<table>
<tr><td>B</td><td>Consider a hypothetical population comprising only three observation 2,0,3. Draw all the possible samples of size 2 and calculate the mean ($\bar{X}$) and variance (s^2) for each sample. Examine whether the statistics are unbiased for the corresponding parameters.</td><td>08</td><td>03</td></tr>
<tr><td></td><td>OR</td><td></td><td></td></tr>
<tr><td>C</td><td>What is the expected number of heads appearing when a fair coin is tossed four times? Find out the variance as well.</td><td>07</td><td>02</td></tr>
<tr><td>D</td><td>A sample of 200 is taken with mean 5 and standard deviation is 2.5 . Find 95% and 99% of confidence interval for the population. Suppose the sample size reduces to 50, determine the 99% confidence interval. State your observation.</td><td>08</td><td>02</td></tr>
<tr><td>Q.3</td><td>Answer the following questions</td><td></td><td></td></tr>
<tr><td>A</td><td>The probability distribution of a random variable X is given as follows, find $Var\ (X), and\ Var(2X-1)$.
<table><tr><td>X</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>P(X)</td><td>1/3</td><td>1/2</td><td>0</td><td>1/6</td></tr></table></td><td>08</td><td>02</td></tr>
<tr><td>B</td><td>A project yields an average cash flow of Rs.500lakhs with standard deviation of Rs. 80lakhs. Calculate the following probabilities assuming the normal distribution;
a. Cashflow will be more than Rs. 550 lakhs
b. Cashflow will be less than Rs. 440 lakhs
c. Cashflow will be between Rs. 450 lakhs and Rs. 530 lakhs.</td><td>07</td><td>04</td></tr>
<tr><td></td><td>OR</td><td></td><td></td></tr>
<tr><td>C</td><td>In a set of random numbers, the digits 0, 1, …,9 were found to have the following frequencies. Test whether they are significantly different from those expected on the hypothesis of uniform distribution.
<table><tr><td>Digits</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td>f</td><td>43</td><td>32</td><td>38</td><td>27</td><td>38</td><td>2</td><td>36</td><td>31</td><td>39</td><td>24</td></tr></table></td><td>08</td><td>04</td></tr>
</table>

D	Daily sales of 40 shopkeepers showed that their average sales and standard deviation were Rs.528 and Rs. 600 respectively. Is the assertion that daily sale on the average is Rs. 400 contradict at 5% level of significance?	07	04
Q.4	Explain the Following with appropriate examples (any three)	15	
A	Level of Significance		03
B	It is given that $P(A \cup B) = \frac{5}{6}$, $P(A \cap B) = \frac{1}{3}$, $P(\bar{B}) = \frac{1}{2}$, determine $P(A) and\ P(B)$. Are A and B independent?		01
C	Find the probability that in 5 tossing, a perfect coin turns up head at least 3 times in succession.		02
D	Type I Vs. Type II errors		03
E	Statistic Vs. Parameter		04

Cumulative Standardized Normal Distribution



$A(z)$ is the integral of the standardized normal distribution from $-\infty$ to z (in other words, the area under the curve to the left of z). It gives the probability of a normal random variable not being more than z standard deviations above its mean. Values of z of particular importance:

z	$A(z)$	
1.645	0.9500	Lower limit of right 5% tail
1.960	0.9750	Lower limit of right 2.5% tail
2.326	0.9900	Lower limit of right 1% tail
2.576	0.9950	Lower limit of right 0.5% tail
3.090	0.9990	Lower limit of right 0.1% tail
3.291	0.9995	Lower limit of right 0.05% tail

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
3.5	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998
3.6	0.9998	0.9998	0.9999							

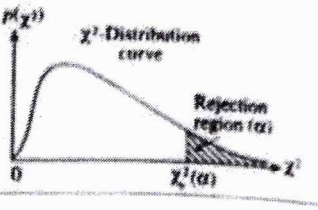
TABLE VIII : CRITICAL VALUES OF STUDENT'S *t*-DISTRIBUTION

d.f.	LEVEL OF SIGNIFICANCE FOR ONE-TAILED TEST						
	.25	.10	.05	.025	.01	.005	.0005
	LEVEL OF SIGNIFICNCE FOR TWO-TAILED TEST						
ν	.50	.20	.10	.05	.02	.01	.001
1	1.000	3.078	6.314	12.706	31.821	63.657	636.619
2	.816	1.886	2.920	4.303	6.965	9.925	31.599
3	.765	1.638	2.353	3.182	4.541	5.841	12.924
4	.741	1.533	2.132	2.776	3.747	4.604	8.610
5	.727	1.476	2.015	2.571	3.365	4.032	6.869
6	.718	1.440	1.943	2.447	3.143	3.707	5.959
7	.711	1.415	1.895	2.365	2.998	3.499	5.408
8	.706	1.397	1.860	2.306	2.896	3.355	5.041
9	.703	1.383	1.833	2.262	2.821	3.250	4.781
10	.700	1.372	1.812	2.228	2.764	3.169	4.587
11	.697	1.363	1.796	2.201	2.718	3.106	4.437
12	.695	1.356	1.782	2.179	2.681	3.055	4.318
13	.694	1.350	1.771	2.160	2.650	3.012	4.221
14	.692	1.345	1.761	2.145	2.624	2.977	4.140
15	.691	1.341	1.753	2.131	2.602	2.947	4.073
16	.690	1.337	1.746	2.120	2.583	2.921	4.015
17	.689	1.333	1.740	2.110	2.567	2.898	3.965
18	.688	1.330	1.734	2.101	2.552	2.878	3.922
19	.688	1.328	1.729	2.093	2.539	2.861	3.883
20	.687	1.325	1.725	2.086	2.528	2.845	3.850
21	.686	1.323	1.721	2.080	2.518	2.831	3.819
22	.686	1.321	1.717	2.074	2.508	2.819	3.792
23	.685	1.319	1.714	2.069	2.500	2.807	3.768
24	.865	1.318	1.711	2.064	2.492	2.797	3.745
25	.684	1.316	1.708	2.060	2.485	2.787	3.725
26	.684	1.315	1.706	2.056	2.479	2.779	3.707
27	.684	1.314	1.703	2.052	2.473	2.771	3.690
28	.683	1.313	1.701	2.048	2.467	2.763	3.674
29	.683	1.311	1.699	2.045	2.462	2.756	3.659
30	.683	1.310	1.697	2.042	2.457	2.750	3.646
40	.681	1.303	1.684	2.021	2.423	2.704	3.551
60	.679	1.296	1.671	2.000	2.390	2.660	3.460
120	.677	1.289	1.658	1.980	2.358	2.617	3.373
∞	.674	1.282	1.645	1.960	2.326	2.576	3.291

TABLE VII : CRITICAL VALUES $\chi_{\upsilon}^2(\alpha)$ OF CHI-SQUARE DISTRIBUTION (RIGHT TAIL AREAS) FOR GIVEN PROBABILITY α.

where $P\left[\chi^2 > \chi_{\upsilon}^2(\alpha)\right] = \alpha$

AND υ IS DEGREES OF FREEDOM (*d.f.*)



Degrees of Freedom (υ)	Probability (α)							
	.99	.975	.95	.90	.10	.05	.025	.01
1	0.000	0.001	0.004	0.016	2.706	3.841	5.024	6.635
2	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210
3	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345
4	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277
5	0.554	0.831	1.145	1.610	9.236	11.070	12.833	15.086
6	0.872	1.237	1.634	2.204	10.645	12.592	14.449	16.812
7	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475
8	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090
9	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666
10	2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209
11	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725
12	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217
13	4.107	5.009	5.892	7.042	19.812	22.362	24.736	27.688
14	4.660	5.629	6.571	7.790	21.064	23.685	26.119	29.141
15	5.229	6.262	7.261	8.547	22.307	24.996	27.488	30.578
16	5.812	6.908	7.962	9.312	23.542	26.296	28.845	32.000
17	6.408	7.564	8.672	10.085	24.769	27.587	30.191	33.409
18	7.015	8.231	8.231	10.865	25.989	28.869	31.526	34.805
19	7.633	8.907	10.117	11.651	27.204	30.144	23.852	36.191
20	8.260	9.591	10.851	12.443	28.412	31.410	34.170	37.566
21	8.897	10.283	11.591	13.240	29.615	23.671	35.479	38.932
22	9.542	10.982	12.338	14.042	30.813	33.924	36.781	40.289
23	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638
24	10.856	12.401	13.848	15.659	33.196	36.415	39..364	42.980
25	11.524	13.120	14.611	16.473	34.382	37.652	40.646	44.314
26	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642
27	12.879	14.573	16.151	18.114	36.741	40.113	43.194	46.963
28	13.565	15.308	16.928	18.939	37.916	41.337	44.461	48.278
29	14.256	16.047	17.708	19.768	39.087	42.557	45.722	49.588
30	14.953	16.791	18.493	20.599	40.256	43.773	46.979	50.892

ırge values of υ, the quantity $\sqrt{2\chi^2} - \sqrt{2\upsilon - 1}$ may be used as a standard normal variable.

Economics
Sem. II

SOMAIYA VIDYAVIHAR UNIVERSITY

March/April 2026 **Examination: In Semester Examination (UG/PG Programmes)**		
Programme code: **Programme:**	**Class:** FY	**Semester:** II
Name of the School:	**Name of the Department**	
Course Code: 216U061301	**Name of the Course: Indian Knowledge Systems**	
Duration: 1 Hr.	**Maximum Marks: 20**	
Instructions:		

Marks Obtained:

Seat No. | | | | | | | | | | | |

Class:

Signature of Candidate	Signature & Name of The Block Supervisor with Date:

Question No.		Max. Marks	CO
Q 1	Consciousness refers to: A. Sleep B. Neutrality C. Ignorance D. Awareness **Answer:**	1 Marks	CO3
Q 2	What is the full form of I.K.S? A. Indian Kinetic Strategies B. International Knowledge Statistics C. Indian Knowledge Systems D. Internal Karyotype System **Answer:**	1 Marks	CO1
Q 3	Ayurveda represents: A. Political system B. Social Justice C. Holistic health approach D. Legal system **Answer:**	1 Marks	CO3

Q 4	IKS includes knowledge from: A. One field only B. Various branches C. Only science D. Only art **Answer:**	**1 Marks**	**CO1**
Q 5	What is included under the Spiritual and Philosophical scope of I.K.S.? A. Understanding the technological developments of machine learning and AI. B. Examining the development of nanobots C. Observing a complex medical operation D. Help to understand the nature of reality **Answer:**	**1 Marks**	**CO3**
Q 6	Coins as sources of IKS are studied under: A. Archaeology B. Numismatics C. Epigraphy D. Philology **Answer:**	**1 Marks**	**CO1**
Q 7	Dharma represents: A. Lawless behavior B. Duty and righteousness C. Profit D. Art **Answer:**	**1 Marks**	**CO3**
Q 8	Archaeological evidence mainly provides: A. Material remains B. Philosophical ideas C. Literary theories D. Oral traditions **Answer:**	**1 Marks**	**CO1**
Q 9	Through _____, IKS helps to develop the aesthetic sense and enables one to understand and appreciate the arts and foster the creativity of humans. A. Visual arts and Performing arts B. Inscriptions C. Religious Scriptures D. Edicts **Answer:**	**1 Marks**	**CO3**

Q 10	Astronomy deals with: A. Atmosphere B. Saturn C. Stars and planets D. Galaxies **Answer:**	**1 Marks**	**CO1**
Q 11	The study of ancient scripts is called: A. Numismatics B. Epigraphy C. Paleography D. Archaeology **Answer:**	**1 Marks**	**CO1**
Q12	Yoga contributes to: A. Economic growth B. Trade C. Physical and mental balance D. Politics **Answer:**	**1 Marks**	**CO3**
Q 13	Textual sources are limited because they: A. Are always accurate B. Reflect specific perspectives C. Include all voices equally D. Are purely scientific **Answer:**	**1 Marks**	**CO4**
Q 14	Cultural expression in IKS primarily involves: A. Economy B. Science only C. Politics D. Art and Architecture **Answer:**	**1 Marks**	**CO3**
Q 15	Knowledge about agriculture and weather is part of: A. Philosophy B. Science C. Art D. Ethics **Answer:**	**1 Marks**	**CO1**

Q 16	IKS helps bridge the gap between: A. Art and science B. Past and present C. Theory and practice D. All of the above **Answer:**	**1 Marks**	**CO4**
Q 17	Epigraphy is the study of: A. Coins B. Architecture C. Inscriptions D. Paintings **Answer:**	**1 Marks**	**CO1**
Q 18	Which of the following is a textual source? A. Inscription B. Pottery C. Coin D. Vedic literature **Answer:**	**1 Marks**	**CO1**
Q 19	Spiritual inquiry differs from scientific inquiry because it focuses on: A. Inner experience B. Measurable facts only C. External observation D. Experiments only **Answer:**	**1 Marks**	**CO3**
Q 20	Studying IKS promotes: A. Fragmented knowledge B. Isolation C. Holistic understanding D. Memory **Answer:**	**1 Marks**	**CO4**