SOMAIYA
VIDYAVIHAR UNIVERSITY

Somaiya School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science (Economics)	SEM: VI
	APR-2025

Sr. No.	Subject	Available
1.	131U31K601 – Risk Management	
2.	131U01C601 – International Finance	
3.	131U01C602 – Indian Mutual Fund Industry	
4.	131U31C604 – Corporate Social Responsibility	
5.	131U31C605 – Research Methodology	
6.	Energy Economics	
7.		
8.		
9.		
10.		

April 2025
Examination: End Semester Examination (UG/PG Programmes)

Programme code: Programme : B.SC Economics	Class: T.Y.B.SC	Semester: VI	
Name of the Constituent College: S K Somaiya	Name of the Department: ECONOMICS		
Course Code:131U31K601	Name of the Course: Risk management		
Duration : 2 Hr.	Maximum Marks : 60		
Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)			

Question No.		Max. Marks	CO
Q 1	A] From the Following information Calculate β of security	7M	CO 1

Year	Interest on Return	Market portfolio
1	11	12
2	14	10
3	18	10
4	10	15
5	8	12
6	11	14
7	18	15
8	12	20
9	20	22
10	10	15

B] Return on two portfolios ,B and L , for the past 4 years are — 8M — CO 1

Year	1	2	3	4
Portfolio B	13%	13.50%	12.50%	14%
Portfolio L	14.35%	11.75%	13.60%	12.90%

Beat factor of the two portfolio are 1.3 and 1.2 respectively. If the market portfolio fetches 12% return , which are considered risk free, yield 5% return and RBI'S Bonds, which are considered risk free, Yield 5% return , which of the two portfolio will an investor prefer?

	OR		
	C] . Find out Expected Rate of Return ,Standard deviation	7M	CO 2

Situation	Probability	Stocks A	Stocks B
Normal	0.3	15%	20%
Recession	0.4	20%	18%
Boom	0.3	12%	16%

D] With the help of following information determine which stocks are overvalued and which are undervalued

8M   CO 2

Stocks	Actual return(%)	Beta
A	19	1.6
B	15	0.8
C	23	1.2

Return on market portfolio (Rm) = 20%

Risk free rate of return (Rf) = 15%

Q 2

A] . The Oil Company has explored three different areas possible oil reserves. The results of the test were as given below

7M   CO 3

	A	B	C	Total
Strikes	7	10	8	25
Dry holes	10	18	9	37
Total	17	28	17	62

Use 5% l.o.s

B] . The output of Four Stocks A,B,C,D are given below

8M   CO 3

A	B	C	D
8	9	3	3
12	4	8	7
1	7	2	8
3	1	5	2

Use at 5% l.o.s

OR
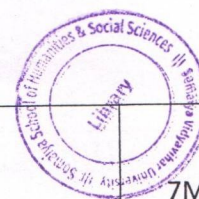
C] Set up analysis of variance table for the following Two Way ANOVA

Varieties of Stocks

	A	B	C
W	6	5	5
X	7	5	4
Y	3	3	3
Z	8	7	4

Also state whether variety differences are significant at 5% l.o.s

7M   CO 3

D] If the demand function is given by
$P = 100 - 0.5(q1+q2)$ and the cost functions of the two firms are
$C1 = 5q1$ and $C2 = 0.5q2$ respectively then find the equilibrium quantity and price charged by the firms if (a) firm 1 is the leader (b) firm 2 is the follower

8M   CO 3

Q 3

A] Explain assumption and Derive Cournot Model of duopoly

7M   CO 4

B] Dominance rule to reduce the size of the payoff matrix [8] find strategy and Value of Game

Player B

		B1	B2
	A1	1	-3
	A2	3	5
Player A	A3	-1	6
	A4	4	1

8M   CO 4

OR

C] Explain Assumption and Derive of Stackelberg Model

7M   CO 4

D] we have five jobs, each of which must go through the two machine A and B in the order AB. Processing time are given in the table

8M   CO 4

Jobs	1	2	3	4	5
Machine A	5	1	9	3	10
Machine B	2	6	7	8	4

Determine a sequence for the jobs that will minimize the elapsed time T

Q 4

Answer any 3 out 5

15 M

A] Find solution of Assignment problem using Maximization

Jobs

	I	II	III	IV
A	42	35	28	21
B	30	25	20	15
C	30	25	20	15

CO 1

D	24	20	16	12

B] Find optimal transportation method by vogels approximation method

	X	Y	Z	Supply
A	18	17	19	200
B	15	12	16	200
C	11	13	14	200
Demand	100	300	150	

C] Testing of Hypothesis

D] You are given the following details for a project consisting of 8 activities:

Activity	Duration (Days)
A(1-2)	4
B(1-3)	6
C(1-5)	13
D(2-3)	5
E(2-4)	20
F(4-6)	10
G(3-6)	6
H(5-6)	16

i) Draw the network diagram and identify the critical path

ii) Find EST,EFT,LST,LFT

E] Time estimate in Network Analysis

CO 2

CO 3

CO 4

CO 4

April 2025
Examination: End Semester Examination (UG Programmes)

Programme code:30		Class: TY	Semester: VI
Programme: BSC Economics			
Name of the Constituent College: S K Somaiya College		Name of the Department: Economics	
Course Code: 131U01C601	Name of the Course: International Finance		
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	Explain the Following		
A	Write meaning, features and scope of international Finance.	08	01
B	Discuss overview and components of balance of payment account.	07	01
	OR		
C	Elaborate overview and elements of international equity markets	08	01
D	Give detailed explanation on ADR and GDR.	07	02
Q.2	Explain the Following		
A	Explain Bretton woods system.	07	02
B	List down the features and advantages of fixed exchange rate system.	08	02
	OR		
C	Recall meaning of interest rate futures and its purpose and benefits.	07	03
D	Discuss how exposure to long term interest rate risk can be hedge.	08	03
Q.3	Explain the Following		
A	Write meaning and characteristics of Euro currency market.	08	03
B	Elaborate on futures contract market and its features.	07	04
	OR		
C	Discuss the Innovation in Euro Bond market.	08	04
D	Summarize Asian Development bank.	07	04
Q.4	Explain the Following (any three)	15	
A	Participants of forex market		01
B	ADR		01
C	Difference between euro bond and foreign bond		02
D	Fischer's Parity		03
E	European Central Bank		04

April 2025			
Examination: End Semester Examination (UG Programme)			
Programme code: **Programme: TYBSC Hons. (Economics)**		**Class: TY**	**Semester: VI**
Name of the Constituent College: S K Somaiya College		**Name of the Department: Economics**	
Course Code: 131U01C602	**Name of the Course: Indian Mutual Fund Industry**		
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 the following:**		
	A)Describe the role of mutual funds in India	7	CO1
	B)Explain the history of mutual funds in India	8	CO1
	OR		
	C)Enumerate the type of mutual fund products based on investment goal and risk profile	7	CO1
	D)What is the role of SRO in India?	8	CO1
Q 2	**Answer the following:**		
	A)Explain any 7 steps (in order) to invest in mutual funds	7	CO2
	B)What are the investment objectives of mutual funds?	8	CO2
	OR		
	C)Define Key Information Memorandum. Explain the elements included in a Key Information Memorandum	7	CO2
	D)State some restrictions on investments in mutual funds	8	CO3
Q 3	**Answer the following:**		
	A)State the elements included in an investment policy	7	CO3
	B)What are the steps and considerations for tracking mutual funds performance?	8	CO4
	OR		
	C)Describe the role of a financial planner in mutual funds	7	CO4
	D)State the reasons why financial planning is essential in mutual funds	8	CO4
Q 4	**Answer the following conceptual questions: (Any 3)**	15	
	A)Factors and metrics to evaluate risk of investing in mutual funds		CO4
	B)Global presence of mutual funds		CO1
	C)Types of investment products		CO4
	D)Constituents of a mutual fund in India		CO1
	E)Investor's obligations when investing in mutual funds		CO2

April 2025
Examination: End Semester Examination (UG Programmes)

Programme code: Programme: BSC Economics		Class: TY	Semester: VI
Name of the Constituent College: S K Somaiya College		Name of the Department: Economics	
Course Code: 131U31C604	Name of the Course: Corporate Social Responsibility		
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	How has the definition and understanding of CSR evolved from the 1950s to the present, and what key events have influenced its transformation worldwide?	08	01
B	What role do trust-based philanthropic initiatives, such as the Tata Trusts and Jamnalal Bajaj Foundation, play in shaping long-term social impact compared to direct corporate CSR programs?	07	01
	OR		
C	How have the four phases of CSR in India evolved in response to historical, economic, and social developments, and what role did industrialists play in shaping CSR before independence?	08	01
D	How does Stakeholder Theory challenge the traditional shareholder-focused approach? What are some criticisms of Stakeholder Theory?	07	02
Q.2	Answer the following questions		
A	How do family firms differ from non-family firms in their approach to Corporate Social Responsibility (CSR)?	07	02
B	How do CSR initiatives in the banking sector contribute to national development goals such as environmental sustainability and poverty alleviation?	08	02
	OR		
C	Discuss the significance of social auditing in corporate accountability. How does social auditing help businesses improve their social and environmental responsibilities? Provide examples of different types of social audits.	07	03
D	How does ISO 26000 contribute to achieving the United Nations Sustainable Development Goals (SDGs)? Provide examples to support your answer	08	03
Q.3	Answer the following questions		

A	Discuss the positive and negative consequences of globalization on CSR. Provide examples of how globalization has both encouraged and hindered responsible business practices.	08	03
B	Discuss the role of stakeholder engagement in shaping an effective CSR strategy. Why is it important for companies to involve multiple stakeholders in their CSR initiatives?	07	04
	OR		
C	Some researchers argue that a balanced approach—combining voluntary CSR with government regulations—could be more effective. Do you agree? Explain how such a hybrid model can address the limitations of both voluntary and mandatory CSR.	08	04
D	How has the 2014 Companies Act influenced CSR in India, and what are its implications for corporate participation in social development?	07	04
Q.4	Explain the Following (any three)	15	
A	Family Firms		02
B	Socially relevant corporations		01
C	Socioemotional Wealth (SEW)		02
D	Difference between Euro bond and foreign bond		03
E	Section 135 (1)		04

Programme code: Programme: BSC Economics		Class: TY	Semester: VI
Name of the Constituent College: S K Somaiya College		Name of the Department: Economics	
Course Code: 131U31C605	Name of the Course: Research Methodology		
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	What are the different research designs?	08	01
B	What is the research process? Explain it with flowchart.	07	01
	OR		
C	What is research problem? Explain its components.	08	01
D	How would you design a sample to study the impact of a public health intervention in rural areas of Maharashtra?	07	02
Q.2	Answer the following questions		
A	How does stratified random sampling differ from cluster sampling? Explain it with an example.	08	02
B	Describe a scenario where systematic sampling would be more effective than simple random sampling.	07	02
	OR		
C	Explain the importance of CHI square for comparing variance and non parametric tests.	07	03
D	What is two way ANOVA ? What are the steps involved in 2 way ANOVA?	08	03
Q.3	Answer the following questions		
A	What is multidimensional scaling? Explain	08	03
B	Discuss the challenges related to data access and quality in research. What strategies can be used to overcome these challenges, and how can collaborations with stakeholders help in ensuring reliable data?	07	04
	OR		

C	Identify and explain the different categories of stakeholders in a research project. How do their roles and interests influence the research process and its outcomes?	08	04	
D	What is the difference between bibliography and referencing? If you want to publish a book which method would you apply?	07	04	
Q.4	Explain the Following (any three)	15		
A	Research		01	
B	Primary Data		02	
C	Schedule Method		02	
D	Simple regression analysis		03	
E	Bibliography		04	

April 2025
Examination: In Semester -_VI__ Examination (PG programmes)

Programme code: Programme: TYBSC	

Name of the Constituent College: S K Somaiya College (SKSC)	Name of the department/Section/Center: Economics

Duration:	Energy Economics	Max. Marks: 60

Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary

Section		Max. Marks	CO
Q1. A.	What role do energy crises play in influencing macroeconomic variables such as inflation and employment?	7	CO 1
B.	What factors determine the supply of energy in a given market?	8	CO 1
	OR		
C.	Describe the history of oil market with respect to OPEC and cartel model.	7	CO 1
D.	What are the challenges faced by India in energy security markets?	8	CO 1
Q2. A.	What is the future of natural gas regulation?	7	CO 2
B.	What is the purpose of electricity act 2003?	8	
	OR		CO 2
C.	Explain the different types of derivatives in energy market?	7	CO 2
D.	How do future contracts work in energy sector?	8	
			CO 2
Q3. A.	How can energy efficiency policies help reduce carbon emission and contribute to achieve climate targets?	7	CO 3
B.	What role do governments play in promoting energy efficiency through regulations?	8	CO 3
	OR	7	CO 3
C	What is the primary role of IREDA in India's renewable energy sector?	8	CO 3
D	What are environmental economic benefits to support solar, wind and other renewable energy sources in India?		
Q4. A.	**Conceptual Questions: (Any three)**	15	CO 4
1.	Energy economics		
2.	Renewable energy		
3.	Green hydrogen		
4.	Externalities in energy production		
5.	Regulated energy market		