



SOMAIYA

VIDYAVIHAR UNIVERSITY

Somaiya School of Humanities and Social Science

QUESTION PAPERS

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

Sr. No.	Subject	Available
1.	231U31C401 – Development Economics	
2.	231U31C402 – Indian Economy Post Reforms	
3.	Research Methodology	
4.	Advanced Mathematical Methods for Economics	
5.		
6.		
7.		
8.		
9.		
10.		



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April 2026		
Examination: End Semester Examination (UG Programmes)		
Programme code: Programme: SYBSC Economics	Class: SY	Semester: IV
Name of the School: Somaiya School of Humanities and Social Sciences	Name of the Department - Economics	
Course Code: 231U31C401	Name of the Course: Development Economics	
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 A and B or C and D: A) Discuss Amartya Sen's Capability Approach B) Distinguish between development and underdevelopment <u>OR</u> C) Explain diagrammatically the low-level equilibrium trap D) Explain the theory of vicious circle of poverty	7 8 7 8	CO1 CO1 CO1 CO2
Q2	Answer A and B or C and D: A) Discuss balanced and unbalanced growth B) Diagrammatically explain the Lewis model of economic growth <u>OR</u> C) Highlight the causes of economic growth D) Diagrammatically explain the Harrod-Domar model of growth	7 8 7 8	CO2 CO2 CO3 CO3
Q3	Answer A and B or C and D: A) Diagrammatically explain the contribution and application of the New Growth Theory B) Discuss any 8 Sustainable Development Goals <u>OR</u> C) What are the Millenium Development Goals? D) What are the new development challenges faced by Latin America	7 8 8 7	CO3 CO4 CO4 CO4
Q4	Answer the following: (Any 3) A) PQLI B) Development as Freedom C) Measures of Poverty D) MDGs E) Domar model of growth	15	CO1 CO1 CO2 CO4 CO3



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March/April 2026		
Examination: End Semester Examination (UG Programmes)		
Programme code:31	Class: SY	Semester: IV
Programme: BSC Economics		
Name of the Constituent College: Somaiya School of humanities and Social Sciences	Name of the Department: Economics	
Course Code: 231U31C402	Name of the Course: Indian Economy Post Reforms	
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	Give in detail rational and features of economic reforms.	08	01
B	Elaborate on Pre reform strategies and Economic reform strategies.	07	01
	OR		
C	Examine the Impact of economic reform on labour.	08	01
D	List down the Economic reforms for reduction of regional disparity.	07	02
Q.2	Explain the Following		
A	Mention in detail Issues and concerns of economic reforms.	07	02
B	Summarize Evolution of Indian financial system.	08	02
	OR		
C	Interpret Problems identified by Narasimham committee and Narasimham Committee Report II of 1998.	07	03
D	Interpret Jalan committee report.	08	03
Q.3	Explain the Following		
A	Illustrate on Reforms in banking sector.	08	03
B	Relate Basel III norm's superiority over Basel II	07	04
	OR		
C	List down Reforms introduced in secondary capital market after 1992.	08	04
D	Evaluate reforms in govt securities market.	07	04
Q.4	Explain the Following (any three)	15	
A	Criticisms of 1991 economic reforms.		01
B	License permit quota		01
C	The Basel accord I		02
D	Capital Market		03
E	Objectives of SEBI		04

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April 2026		
Examination: End Semester Examination (UG Programme)		
Programme code: Programme: BSc Economics	Class: SY	Semester: IV
Name of the School: School of Humanities and Social Sciences	Name of the Department: Economics	
Course Code:	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 techniques involved in defining a research problem?	08	01
B	What are the different research designs?	07	01
	OR		
C	Describe a scenario where stratified sampling would be more effective than simple random sampling. (Give an appropriate example)	08	02
D	Explain the important experimental designs in research.	07	01
Q.2			
A	What are different sources of secondary data?	07	02
B	Examine the merits and limitations of the interview method in collecting data. Illustrate your answer with suitable examples.	08	02
	OR		
C	What is skewness? Explain the measures of skewness.	07	03
D	Explain the different measures of relationship	08	03
Q.3	Answer the following questions		
A	Explain the measures of dispersion	08	03

B	What is the difference between bibliography and referencing? If you want to publish a book which method would you apply?	07	04
	OR		
C	What is plagiarism? How to detect and avoid plagiarism? Do you think bibliography is a solution to it?	08	04
D	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?	07	04
Q.4	Explain the Following with appropriate examples (any three)	15	
A	Tabulation		03
B	Research		01
C	Focus group discussion		02
D	Simple regression analysis		03
E	Common Knowledge		04



April 2026		
Examination: End Semester Examination (UG Programme)		
Programme code: Programme: BSc Economics	Class: SY	Semester: VI
Name of the School: Somaiya School of Humanities and Social Sciences		Name of the Department: Economics
Course Code:	Name of the Course: Advanced Mathematical Methods for Economics	
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	<p>A monopolist faces the following cost and demand functions:</p> $C = Q^3 - 12Q^2 + 150Q + 100$ $P = 120 - 3Q$ <p>a. Derive the marginal revenue (MR) and marginal cost (MC) function. b. Write the profit function. c. Determine the profit-maximizing output and price.</p>	08	01
B	<p>Suppose the total cost function is given to you as</p> $TC = aQ^3 + bQ^2 + cQ + d$ <p>What restrictions you will put on the coefficients i.e. a, b, c, d to have an economic interpretation of the total cost function.</p>	07	01
	OR		
C	<p>Prove that firm maximizes its profit iff</p> <p>a. $MR=MC$, (necessary condition) b. The rate of change in MR is less than the rate of change in MC, (Sufficient condition)</p>	08	01

D	<p>Write the stationary conditions for the following constraint function</p> $u = x_1^\alpha x_2^\beta x_3^\rho$ <p>Subject to constraints</p> $x_1 + 2x_2 = 100$ $x_2 + 4x_3 = 100$	07	02
Q.2			
A	<p>Given the function</p> $u = x^2 + y^2$ <p>Subject to constraint $x + y = 1$</p> <p>Find the point where u is minimum and also the minimum value of u.</p>	07	02
B	<p>Given the following utility function and budget constraint, prove that the consumer attains equilibrium when the price ratio (slope of budget line) is equal to the marginal rate of substitution (MRS, slope of indifference curve) i.e. $\frac{MU_x}{MU_y} = \frac{P_x}{P_y}$</p> $U = f(x, y)$ <p>Subject to constraint $xP_x + yP_y = B$</p>	08	02
	OR		
C	<p>Examine whether the following function is positive definite or negative definite or neither</p> $z = x^2 - y^2 + xy$	07	03
D	<p>Determine whether the following function is maximizing or minimizing by using Hessian determinant</p> $q = -u^2 + 4uv - 6uw - 4v^2 - 7w^2$	08	03
Q.3	Answer the following questions		
A	<p>Find the first and second order differential for the following function</p> $u = x^3 + y^3 - 3x - 2y + 24$	08	03

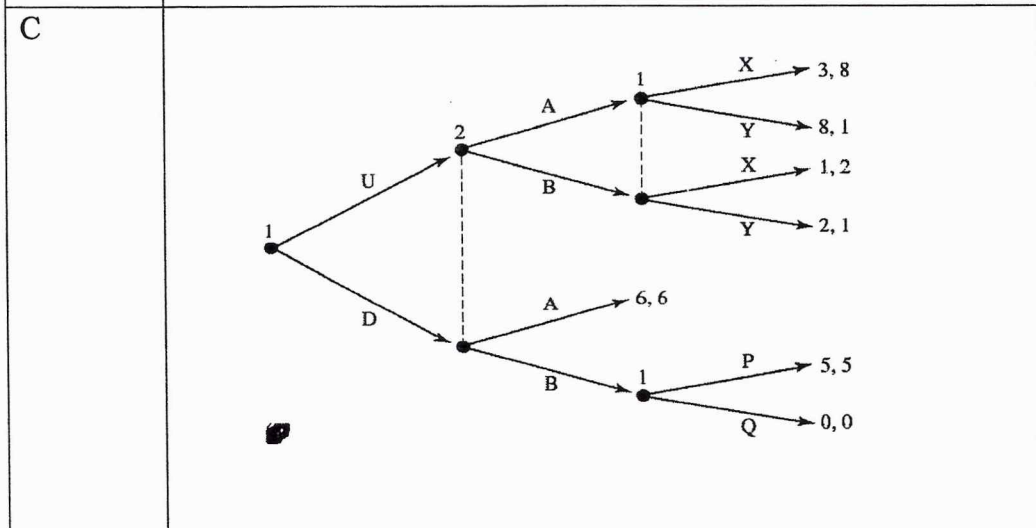


B Two farmers share a water source. Each can Conserve water (C) or Overuse water (O). If both conserves then sustainable outcome is (4,4). If one overuses gets higher yield (6), other suffers and get (1). If both overuse depletion leads to the outcome (2,2).

Find the Nash equilibrium. Do you think the equilibrium is an efficient equilibrium?

07 04

OR



08 04

Write the player lists, each player's strategy space and payoff function. (Hint: use normal form of game)

D

		Player 2		
		W	Y	Z
Player 1	B	3,0	-1,4	-2,0
	C	2,2	0,4	0,2
	D	-3,0	-1,4	1,1

What is Nash equilibrium? Write the strategy space of each players and find Nash equilibrium from the above game.

07 04

Q.4 Explain the following with appropriate examples (any three)

15

A Determine whether the following functions is homogenous. If yes, what is the degree?

$$f(x, y, w) = \frac{xy^2}{w} + 2xw$$

03

B Find the first order partial derivative of the following production function with respect to *L* and *K*, known as marginal product of labor (MP_L) and marginal product of capital (MP_K).

01

	$Q = A[\delta K^{-\rho} + (1 - \delta)L^{-\rho}]^{-1/\rho} \quad (A > 0, 0 < \delta < 1, \rho > 0)$ <p>Where A, δ, ρ are parameters. What are you observing regarding the sign of MP_L and MP_K?</p>		
C	<p>Use Lagrange-method to find the stationary value of z</p> $z = 7 - y + x^2 \text{ subject to } x + y = 0$		02
D	<p>Find the first order differential of the following functions</p> $u = (x^2 + y)(2x - y^2)$		03
E	<p>The government first decides whether to impose regulation or not regulate. If there is no regulation, the game ends. If regulation is imposed, the firm chooses whether to comply or violate the rules. After observing the firm's action, the government decides whether to penalize or ignore.</p> <p>Represent the above game in extensive form.</p>		04