



# SOMAIYA

## VIDYAVIHAR UNIVERSITY

Somaiya School of Humanities and Social Science

### QUESTION PAPERS

|                                    |          |
|------------------------------------|----------|
| BRANCH: Master of Arts – Economics | SEM: II  |
| ATKT                               | JUN-2026 |

| Sr. No. | Subject                       | Available |
|---------|-------------------------------|-----------|
| 1.      | Economics                     |           |
| 2.      | Mathematical Economics        |           |
| 3.      | Basic Economics               |           |
| 4.      | Evolution of Economic Thought |           |
| 5.      |                               |           |
| 6.      |                               |           |
| 7.      |                               |           |
| 8.      |                               |           |
| 9.      |                               |           |
| 10.     |                               |           |



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VIDYAVIHAR UNIVERSITY

1.1 JUN 2020

| April 2026                                                                |                                  |                                    |
|---------------------------------------------------------------------------|----------------------------------|------------------------------------|
| Examination: In Semester Examination (PG Programmes)                      |                                  |                                    |
| Programme code:<br>Programme:                                             | Class: FY                        | Semester: II                       |
| Name of the School: SSHSS                                                 |                                  | Name of the Department : Economics |
| Course Code:                                                              | Name of the Course: MA 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           | <p>Answer the following questions</p> <p>1. What is pure coordination game? Explain with example.</p> <p>2. What are the mixed strategies in game theory? Explain.</p> <p>OR</p> <p>1. Examine the Stackleburg model in detail.</p> <p>2. Describe the Bertrand paradox in short.</p>                                                      | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | 1  |
| Q 2          | <p>Answer the following questions</p> <p>1. Explain moral hazard with pooling and separating equilibrium.</p> <p>2. What is adverse selection? Explain it with the help of lemon model.</p> <p>OR</p> <p>1. Explain adverse selection under uncertainty with insurance game.</p> <p>2. What is signaling? Explain with education game.</p> | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | 2  |
| 3            | <p>Answer the following questions</p> <p>1. Explain the price and output determination under monopoly.</p> <p>2 Describe first degree price discrimination in short.</p> <p>OR</p> <p>1. Explain the third degree price discrimination under monopoly.</p> <p>2. Write a note on monopoly welfare loss.</p>                                | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | 3  |
| 4            | <p>Answer the following questions</p> <p>1. Write a note on one shot game of oligopoly.</p> <p>2. Explain oligopoly and repeated game in shot.</p> <p>OR</p>                                                                                                                                                                               | <p>7</p> <p>8</p>                   | 4  |

|  |                                                                       |   |  |
|--|-----------------------------------------------------------------------|---|--|
|  | 1.What are the punishment by Cournot in Nash equilibrium competition? | 8 |  |
|  | 2. Critically examine the folk theorem in short.                      | 7 |  |



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| April 2026                                                                |                                            |              |
|---------------------------------------------------------------------------|--------------------------------------------|--------------|
| Examination: End Semester Examination (PG Programme)                      |                                            |              |
| Programme code:<br>Programme: MA 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: Mathematical 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>Solve the system of equation by using Cramer's rule.</p> $\begin{aligned} 2y + z &= 5 \\ x + 3z &= 6 \\ 2x + y &= 4 \end{aligned}$                                                                                       | 08         | 01            |
| B            | <p>Find the Cartesian product, and graph your results</p> $S_1 = \{x: x = 1, 2, 3\}$ $S_2 = \{y: y = x^2\}$                                                                                                                 | 07         | 01            |
|              | OR                                                                                                                                                                                                                          |            |               |
| C            | <p>Given two matrices A and B, prove that <math>AB \neq BA</math>.</p> $A = \begin{bmatrix} 3 & 1 & -4 \\ 1 & 1 & 0 \\ 1 & 2 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 0 \\ 1 & 1 & 0 \\ 1 & 2 & 1 \end{bmatrix}$ | 07         | 01            |
| D            | Find $\int_1^2 \frac{x^2}{(x^3+5)^2} dx$                                                                                                                                                                                    | 08         | 03            |
| Q.2          |                                                                                                                                                                                                                             |            |               |
| A            | <p>Evaluate the following integral</p> $\int x e^x dx$                                                                                                                                                                      | 07         | 03            |

|     |                                                                                                                                                                    |    |    |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| B   | <p>Evaluate the following integral</p> <p>i. <math>\int (x^a + x^b) dx</math></p> <p>ii. <math>\int (x^{a+b} - x^{c-d}) dx</math></p>                              | 08 | 03 |
|     | OR                                                                                                                                                                 |    |    |
| C   | <p>Find the first order and second order differential of the following function</p> $u = 2x^2 + 2xy + y^2$                                                         | 07 | 02 |
| D   | <p>Total cost function is given as</p> $C = (3 + 2q^2)^2$ <p>Find the marginal cost and average cost function.</p>                                                 | 08 | 02 |
| Q.3 | Answer the following questions                                                                                                                                     |    |    |
| A   | <p>Given,</p> $u = 3x^2y^2 + xy + 3x^2 + 100$ <p>find <math>f_x, f_{xx}, f_y, f_{yy}, f_{xy}, f_{yx}</math>.</p>                                                   | 08 | 02 |
| B   | <p>Apply Hessian determinant to find out whether the function is attaining maximum or minimum at the stationary value of <math>x</math></p> $z = 8x^2 + 2xy + y^2$ | 07 | 04 |
|     | OR                                                                                                                                                                 |    |    |
| C   | <p>Given the following function find the stationary values of <math>z</math>.</p> $U = (x + 2)(y + 1)$ <p>Subject to constraint <math>4x + 6y = 130</math></p>     | 08 | 04 |
| D   | <p>Find whether the function is attaining maximum or minimum at the stationary value of <math>x</math></p> $y = x^3 - 3x^2 + 2$                                    | 07 | 04 |
| Q.4 | Explain the Following with appropriate examples (any three)                                                                                                        | 15 |    |
| A   | Find whether the function is positive or negative definite at the stationary value of $x$                                                                          |    | 03 |



|   |                                                                                                                                                                                          |  |    |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
|   | $y = 8 - 5x - x^2$                                                                                                                                                                       |  |    |
| B | Find the limit of the following function<br>$\lim_{x \rightarrow 0} \frac{(x+3)^2 - 9}{2x}$                                                                                              |  | 01 |
| C | Find $dy/dx$ of the following function<br>$y = (x^2 + x)\ln(x^2 + 1)$                                                                                                                    |  | 02 |
| D | Prove that $A - B = B - A$<br>$A = \begin{bmatrix} 0 & -3 & 6 \\ 0 & 8 & 1 \\ -5 & 6 & 0.5 \end{bmatrix} \quad B = \begin{bmatrix} 6 & -8 & 0 \\ 0 & 8 & 6 \\ -5 & 1 & -8 \end{bmatrix}$ |  | 03 |
| E | Find the 5 <sup>th</sup> order derivative of the following function<br>$x^4 + 5x^2 - 100x$                                                                                               |  | 04 |



**SOMAIYA**  
VIDYAVIHAR UNIVERSITY



ATKT  
MA. Economics  
Sem-II

606

June 2026

**Examination: In Semester ATKT Examination (PG Program)**

**Programme code:**

**Programme: MA**

**Class: FYMA**

**Semester: II**

**Name of the School: SSHSS**

**Name of the Department: Economics**

**Course Code:**

**Name of the Course: Basic Econometrics**

**Duration : 2 Hr.**

**Maximum Marks : 60**

**Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary 3)**

| Question No. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max. Marks                          | CO  |     |     |     |     |     |     |     |   |    |   |    |     |     |     |     |     |     |     |     |     |   |    |    |    |    |     |     |     |     |     |     |                                     |     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|---|----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-------------------------------------|-----|
| Q1           | <p>Answer the following questions.</p> <p>A. Explain the methodology adopted to study Basic Econometrics.</p> <p>B. What are the conceptual and statistical issues involved in national income estimation?</p> <p style="text-align: center;">OR</p> <p>A. Explain the different types of cost concepts.</p> <p>B. What is the Capital Asset Pricing Model (CAPM)? Discuss.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | CO1 |     |     |     |     |     |     |     |   |    |   |    |     |     |     |     |     |     |     |     |     |   |    |    |    |    |     |     |     |     |     |     |                                     |     |
| Q 2          | <p>Answer the following questions.</p> <p>A. Explain Population Regression Function (PRF) in short.</p> <p>B. Discuss the properties of least square estimators Gauss- Markav Theorem.</p> <p style="text-align: center;">OR</p> <p>Calculate <math>\beta_1</math> and <math>\beta_2</math> from the following table.</p> <table><tr><td>No</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><td>10</td></tr><tr><td>X</td><td>80</td><td>100</td><td>120</td><td>140</td><td>160</td><td>180</td><td>200</td><td>220</td><td>240</td><td>280</td></tr><tr><td>Y</td><td>70</td><td>65</td><td>90</td><td>95</td><td>110</td><td>115</td><td>120</td><td>140</td><td>155</td><td>150</td></tr></table> <p>B. Explain the T test and chi square test in short.</p> | No                                  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9 | 10 | X | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 280 | Y | 70 | 65 | 90 | 95 | 110 | 115 | 120 | 140 | 155 | 150 | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | CO2 |
| No           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                                   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |   |    |   |    |     |     |     |     |     |     |     |     |     |   |    |    |    |    |     |     |     |     |     |     |                                     |     |
| X            | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100                                 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 280 |   |    |   |    |     |     |     |     |     |     |     |     |     |   |    |    |    |    |     |     |     |     |     |     |                                     |     |
| Y            | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 65                                  | 90  | 95  | 110 | 115 | 120 | 140 | 155 | 150 |   |    |   |    |     |     |     |     |     |     |     |     |     |   |    |    |    |    |     |     |     |     |     |     |                                     |     |



|     |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|
|     |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |     |
| Q 3 | <p>Answer the following questions.</p> <p>A. What is Regression analysis and analysis of variance (ANOVA)? Describe</p> <p>B. What is piece wise linear regression? Explain in detail with the help of dummy variable.</p> <p>OR</p> <p>A. What are the issue of multicollinearity? describe in short.</p> <p>B. What is heteroscedasticity? What are the reasons that the variances of <math>u_i</math> may be variable?</p> | <p>8</p> <p>7</p> <p>7</p> <p>8</p> | CO3 |
| Q4. | <p>Answer the following questions.</p> <p>A. What is autocorrelation? Explain OLS estimates in the presence of autocorrelation?</p> <p>B. Briefly examine non-stationary stochastic process in short.</p> <p>OR</p> <p>A. Critically examine unit root test.</p> <p>B. Discuss the Co integration concept. What are the tests for testing co integration?</p>                                                                 | <p>7</p> <p>8</p> <p>8</p> <p>7</p> | CO4 |



**SOMAIYA**  
VIDYAVIHAR UNIVERSITY



8202 NOV 01  
10 JUN 2020

ATKT  
MA Economics  
Sem-II

| March/April 2026                                                         |                                                   |                                   |              |
|--------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|--------------|
| Examination: In Semester Examination (UG Programmes)                     |                                                   |                                   |              |
| Programme code:                                                          |                                                   | Class: MA-I                       | Semester: II |
| Programme: Evolution of Economic Thought                                 |                                                   |                                   |              |
| Name of the School: Somaiya School of Humanities and Social Science      |                                                   | Name of the Department: Economics |              |
| Course Code:                                                             | Name of the Course: Evolution of Economic Thought |                                   |              |
| Duration: 2 Hr.                                                          | Maximum Marks: 60                                 |                                   |              |
| Instructions: 1) Draw neat diagrams 2) Assume suitable data if necessary |                                                   |                                   |              |

| Question No.1        | Answer the following questions                                                                                                                  | Marks:15 | CO |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| A                    | Explain Say's Law and its importance in classical economics.                                                                                    | 7        | 1  |
| B                    | Compare Keynesian and Monetarist views.                                                                                                         | 8        | 1  |
|                      | <b>OR</b>                                                                                                                                       |          |    |
| C                    | Discuss Malthusian Theory of Population.                                                                                                        | 7        | 1  |
| D                    | Explain role of government in managing aggregate demand.                                                                                        | 8        | 1  |
| <b>Question No.2</b> | <b>Answer the following questions</b>                                                                                                           |          |    |
| A                    | Discuss contribution of Robert Lucas to macroeconomics.                                                                                         | 7        | 2  |
| B                    | Explain Laffer Curve with diagram.                                                                                                              | 8        | 2  |
|                      | <b>OR</b>                                                                                                                                       |          |    |
| C                    | Explain General Equilibrium theory of Walras                                                                                                    | 7        | 2  |
| D                    | Explain sunspot theory of trade cycle and Contribution of William Stanley Jevons to Economic Theory and Its Relevance to Modern Macroeconomics. | 8        | 2  |
| <b>Question No.3</b> | <b>Answer the following questions</b>                                                                                                           |          |    |
| A                    | Explain Lewis Dual-Sector Model with diagram.                                                                                                   | 7        | 3  |
| B                    | Explain Harrod-Domar Growth Model and Its Applicability to Developing Countries.                                                                | 8        | 3  |
|                      | <b>OR</b>                                                                                                                                       |          |    |
| C                    | Explain Big Push Theory and how it breaks the vicious circle of poverty.                                                                        | 7        | 3  |
| D                    | Discuss Schumpeter's model of creative destruction.                                                                                             | 8        | 3  |
| <b>Question No.4</b> | <b>Answer the following questions</b>                                                                                                           |          |    |
| A                    | Explain importance of economic forecasting in policy formulation.                                                                               | 7        | 4  |
| B                    | Explain the Random Walk Model. Why Is It Important in Financial Economics.                                                                      | 8        | 4  |
|                      | <b>OR</b>                                                                                                                                       |          |    |
| C                    | Distinguish Between Nominal Variables and Real Variables with Examples.                                                                         | 7        | 4  |
| D                    | Explain limitations of the IS-LM model.                                                                                                         | 8        | 4  |