<table>
<thead>
<tr>
<th>Semester-I</th>
<th>Max. Marks</th>
<th>Internal Assessment</th>
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<tbody>
<tr>
<td>I .1 Economic History of India 1857 – 1947</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>I .2 Principles of Economics</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>I .3 Mathematics for Economic Analysis –I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>I .4 Sociology – I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>I .5 English –I</td>
<td>80</td>
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<tr>
<th>Semester-II</th>
<th>Max. Marks</th>
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<tbody>
<tr>
<td>II .1 Indian Economy Since Independence: Problems and Prospects-I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>II .2 Micro Economics-I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>II .3 Mathematics for Economic Analysis – II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>II .4 Sociology –II</td>
<td>80</td>
<td>20</td>
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<tr>
<td>II .5 English –II</td>
<td>80</td>
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<th>Semester-III</th>
<th>Max. Marks</th>
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<tbody>
<tr>
<td>III .1 Indian Economy: Problems and Prospects –II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>III .2 Micro Economics-II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>III .3 Development Economics – I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>III .4 Accounting &amp; Financial Management</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>III .5 Statistics for Economic Analysis</td>
<td>80</td>
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<th>Semester-IV</th>
<th>Max. Marks</th>
<th>Internal Assessment</th>
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<tbody>
<tr>
<td>IV .1 Data Base of the India Economy and Computer Analysis of Data</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>IV .2 Macro Economics – I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>IV .3 Development Economics- II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>IV .4 Economics of Agriculture</td>
<td>80</td>
<td>20</td>
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<tr>
<td>IV .5 Econometrics</td>
<td>80</td>
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<th>Semester V</th>
<th>Max. Marks</th>
<th>Internal Assessment</th>
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<tbody>
<tr>
<td>V .1 History of Economic Thought-I</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>V .2 Macro Economics– II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>V .3 Basics of Financial Markets</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>V .4 Economics of Industry</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>V .5 Optimization Techniques and Game Theory</td>
<td>80</td>
<td>20</td>
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<tr>
<th>Semester-VI</th>
<th>Max. Marks</th>
<th>Internal Assessment</th>
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<tbody>
<tr>
<td>VI.1 History of Economic Thought-II</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>VI .2 Human Resource Development</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>VI .3 Economics of Public Finance</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>VI .4 Environmental Economics</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>VI .5 International Economics</td>
<td>80</td>
<td>20</td>
</tr>
</tbody>
</table>
UNIT – I
Why study economic history, the problems in interpreting India’s past, the state of the Indian Economy on the eve of independence, Indian Economy in the mid-nineteenth century, growth of the empire and systems of land settlements in the Colonial India.

UNIT - II
Transformation of the traditional village – economy during the British rule, Commercialization of agriculture – its causes and consequences, Emergence of agricultural labour as a category, movement of agricultural wages and prices during the period – problems of rural indebtedness.

UNIT – III
The state of industrial development in mid-nineteenth century India, the de-industrialization thesis –its statement and validity, emergence of modern capitalist industrial enterprise in India – Textile (Jute and Cotton), Iron & Steel, Cement, Coal, Tea.

UNIT – IV
Foreign capital in Colonial India – its extent and impact; foreign-trade-growth andcomposition; ‘guided under-development’ of India under the British rule; evolution of provincial finance, the nature and problem of public debt; Economic drain from India -form, extent and consequences.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Essential Readings:
Kalyani Publishers, New Delhi.

Further Readings:
I.2 – PRINCIPLES OF ECONOMICS

Max.Marks: 80 Time: 3 Hrs.

MICRO ECONOMICS

UNIT – I


Laws of demand and Supply. Elasticity: Concept, measurement, determinant and importance. Market equilibrium; excess demand, excess supply and changes in equilibrium. Government intervention in terms of fixing maximum and minimum prices.

Consumer choice: Cardinal and Ordinal utility analysis. Concept of Consumer’s Surplus.

UNIT - II


Traditional cost analysis: Short run and long run.

Profit maximization hypothesis. Price and output determination under Perfect Competition and simple Monopoly.

MAcro ECONOMICS

UNIT - III


Consumption, Savings and Investment: Classical and Keynesian views.

 Aggregate Demand and Equilibrium Output: Keynesian model. The concept, operation and limitations of Multiplier.
UNIT - IV


NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Essential Readings

Case, Karl E and Fair, Ray C : 'Principles of Economics’ 6th edition. Pearson (First Indian Print 2002 Education Asia)


Further Readings:


UNIT - I

Basic Concepts : Variables and Parameters; Sets; Functions and their graphs; Limits; Equations – simple, quadratic and simultaneous and Identities; Equations of a straight line, concept of slope; Equation and interpretation of Rectangular Hyperbola.

UNIT – II

Series – Arithmetic and Geometric; Rate of growth and its Measurement, Present Value and its Applications. Annuities: Types, Amount and Present value; Simple Differentiation – concept and applications.

UNIT - III

CALCULUS: Partial and Total differentiation; Homogenous function and Euler’s Theorem; Maxima and Minima of Functions of one and two variables; Constrained Optimization Problem (with maximum three variables). Integration of a function; Methods of Substitution and Partial fractions; Integration by parts.

UNIT - IV

Applications: Simple and Direct Applications of the above Concepts in economics: Concept of elasticity; Elasticity of demand; Average and Marginal functions; Interrelationships among total, marginal and average cost and revenues; Partial derivatives and nature of commodities; Optimization problems relating to revenue, cost, profit, utility and production; Consumer’s surplus and producer’s surplus.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.
<table>
<thead>
<tr>
<th><strong>Essential Readings</strong></th>
<th><strong>Fundamental Methods of Mathematical Economics</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chiang, Alpha C (1984)</td>
<td>(3rd Ed.)</td>
</tr>
<tr>
<td>Yamane, Taro (1972)</td>
<td>Applications (4th Ed.)</td>
</tr>
<tr>
<td><strong>Further Readings</strong></td>
<td>Mathematics for Economists</td>
</tr>
<tr>
<td>Allen, R G D (1983)</td>
<td>Mathematical Analysis for Economists</td>
</tr>
<tr>
<td>Kooros, A (1965)</td>
<td>Elements of Mathematical Economics</td>
</tr>
</tbody>
</table>
I.4 - Sociology – I

Basic Concepts in Sociology

Maximum Marks – 100
Theory – 90
Internal Assessment – 10
Time – 3 hours

Note: - The Paper setter shall set 8 questions from all the four units with internal choice. However, one compulsory question of short answer type (to be answered in 20 – 30 words) and it will cover all the units. It will consist of nine sub-questions of two marks each. The students will be required to attempt five questions in all. All questions will consist of 18 marks each.

UNIT – I
Nature, Definition & Scope of Sociology: Its Relationship with History, Economics, Political Science, Anthropology and Psychology

UNIT – II

UNIT – III
Social Groups and Processes: Nature, Definition & Types: Primary Secondary & Reference Group, Integration, Cooperation and Conflict

UNIT – IV
Socialization and Social Institutions: Definition, Stages and Agencies of Socialization; Nature, Characteristics and Significance of Economic and Political Institutions

Readings:
LITERATURE AND LANGUAGE-I (English)
SEMESTER-I

Theory 80
Internal Assessment 20
Time 3 Hours

Part-A Poetry

The following poems from The Chronicles of Time edited by Asha Kadyan (Oxford University Press)

a) “Let Me Not to the Marriage of True Minds” by William Shakespeare
b) “Death Be Not Proud” by John Donne
c) “On His Blindness” by John Milton
d) “Shadwell” by John Dryden
e) “Know Then Thyself” by Alexander Pope
f) “The Little Black Boy” by William Blake
g) “Three Years She Grew in Sun and Shower” by William Wordsworth

Part-B Phonetics and Grammar

i) Phonetitics: Introduction to the Sound System of English; Phonetics Symbols, Organs of Speech, Transcription of Words (Oxford Advance Learners’ Dictionary by Hornby to be followed).


Instructions for the paper-setter and the students

Q. No. 1 Explanation with reference to the context. The students will be required to attempt two passages out of the given four from the book of poems.

8x2=16

Q. No. 2 Two questions (with internal choice) will be asked based on theme, central idea, message and narrative technique of the poem

8x2=16

Q. No. 3 The question will be based on the Sound System of English language having internal choice

16

Q. No. 4 The question will be based on grammar. There will be internal choice with 16 sentences out of 24 to be attempted.

16

Q. No. 5 The question will be based on technical writing. There will be internal choice.

16

Suggested Reading:

High School Grammar by Wren and Martin.
Remedial English Grammar for Foreign Students by F.T. Wood.
Essentials of Communication by D.G. Saxena
II.1 – Indian Economy: Problems and Prospects – I

Max. Marks: 80 

Time: 3 Hrs.

UNIT - I

Introduction to Indian Economy – Basic characteristics and features of Indian economy. Economic Planning in India: Features, Objectives and Assessment of Indian Planning. (Plan wise details to be excluded).

UNIT - II

Demographic features of India’s population. Inter-state disparities in the pattern of development. Structural Change in the distribution of Income and Workforce in India.

UNIT – III

Poverty and unemployment in India. Programmes for eradication of poverty and unemployment with special reference to the post – reform era.

UNIT – IV


NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Essential Readings:


Further Readings:


Economic and Political Weekly : Various Issues
II .2 – Micro Economics – I

Max.Marks: 80  Time: 3 Hrs.

UNIT - I

Methodology of Positive Economics: Alternative approaches to the construction and appraisal of theories in social sciences like Economics.
Equilibrium: Partial and General; Existence and Uniqueness; Stability: Static and Dynamic.

UNIT – II

Consumer choice:  (a) Under certainty: Indifference curves and Revealed preference Analysis (Weak and Strong Axioms);

(b) Under uncertainty: N-M analysis.

Market Demand: From household demand to Market Demand: The role of Network Externalities.

UNIT - III

Theory of Production and Costs:

(a).  Given technology and one variable factor: Returns to factor proportions; factor productivity curves; stages of production and producer’s choice.
Costs of production: Concepts; Derivation of short run costs curves from factor productivity curves.

(b).  Choice of Technology and Scale with all the factors of production being variable: Producer’s factor market equilibrium. Output maximization subject to a given budget and cost minimization subject to a given output constraint.

UNIT - IV

( a) Changes in factor prices: Output, Substitution Effects and Elasticity of factor substitution.
Returns to Scale.
Productivity and Technical Change.

(c) Dynamic changes in costs of production: The learning Curve analysis

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory


Further Readings


Ryan W J L and Pearce, D W (1977) Price Theory, Mc Millan India, New Delhi


II .3 – Mathematics for Economic Analysis – II

Max.Marks: 80  Time: 3 Hrs.

UNIT - I

Matrices and Determinants: Types; Transpose, trace, adjoint and Inverse of matrices; Solution of a system of two and three equations by Matrix Inverse and Cramer’s methods; Linear independence and Linear dependence of vectors; Rank of a matrix; Simple Application questions. Application in Input-Output analysis.

UNIT - II

Differential Equation: Introduction; Solution: Variable separable case, Homogeneous case, Standard linear differential equation, Bernoulli’s form, Exact equation; Solution of linear differential equation with constant coefficients; Simple Application questions.

UNIT - III

Difference Equation: Introduction; Solution of difference equations upto 4th order. Simple Application questions.

UNIT - IV

Linear Programming: Formulation and Solution by Graphic method & Simplex method.

NOTE: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.
Essential Readings
Yamane, Taro (1972) : Mathematics for Economists

Other Books
Kooros, A (1965) : Elements of Mathematical Economics
II.4 Sociology – II
Indian Society: Structure and Change

Maximum Marks – 100
Theory – 90
Internal Assessment – 10
Time – 3 hours

Note: - The Paper setter shall set 8 questions from all the four units with internal choice. However, one compulsory question of short answer type (to be answered in 20 – 30 words) and it will cover all the units. It will consist of nine sub-questions of two marks each. The students will be required to attempt five questions in all. All questions will consist of 18 marks each.

UNIT – I
Evolution of Indian Society: Traditional view of Indian Society; Factors Promoting Unity and Diversity in India; India as Pluralistic Society, Multi-Ethnic; Multi-Religious; Cultural and Lingual

UNIT – II
Indian Social Institutions: Kinship, Family, Marriage; Caste and its Changing Dimensions.

UNIT – III
Processes of Social Change in India: Sanskritization, Westernization, Parochiatization and Universatization

UNIT – IV
Social Inequality and State: Gender Discrimination and Caste Inequality; Planning and Development; Impact of Government’s Affirmative Action on Deprived Groups (SC, ST, OBC & Women)

Readings:
Beteille, Andre (1992): Backward Classes in Contemporary India, New Delhi: OUP.
India: 2010 Govt. of India, New Delhi, Govt. of India publication division.
II.5 - English-II
LITERATURE AND LANGUAGE-II (English)
SEMESTER-II

Max. Marks 100
Theory 80
Internal Assessment 20
Time 3 Hours

Part-A Short Stories

The following Stories from *The Pointed Vision: An Anthology of Short Stories*
By Usha Bande and Krishan Gopal (Oxford University Press, New Delhi):

1. ‘The Bet’ by Anton Chekhov
2. ‘Gift of the Magi’ by O Henry
3. ‘The Postmaster’ by Rabindranath Tagore
4. ‘Three Questions’ by Leo Tolstoy.
5. ‘The Dying Detective’ by Arthur Conan Doyle.

Part-B (i) Grammar and Writing Skills
a) Synonyms and Antonyms
b) Prefix-Suffix
c) Homophones and Homonyms
d) One word substitution

(ii) a) Developing writing skills through theme based paragraphs
b) Technical writing: E-mail writing, Reporting, Resume writing, Re-viewing T.V. Programmes

Instructions to the Paper Setter and the Students

Q.No. 1 Explanation with reference to the context. The student will be required to attempt two passages (with internal choice) from the book of Stories 8x2=16

Q.No. 2 Two essay type questions (with internal choice) will be asked from the book of stories. 8x2=16

Q.No. 3 This question will be based on grammar. Students will be required to attempt 16 sentences out of the given 24. 16

Q.No.4 & 5 Question No. 4 & 5 will be based on writing skills and technical writing. 16x2=32

Suggested Reading:

*High School Grammar* by Wren and Martin.
*Remedial English Grammar for Foreign Students* by F.T. Wood.
*Essentials of Communication* by D.G. Saxena
III .1 – Indian Economy : Problems and Prospects –II

Max.Marks: 80

UNIT – I

Industry: Pattern and growth of Indian industry since 1950. Critique of Industrial Policy in the pre-reform era. Role and performance of the public sector .

UNIT -II


UNIT-III


UNIT-IV


NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory
**Essential Readings:**


**Additional Readings:**


Economic and Political Weekly : Various Issues.
III .2 - Micro Economics – II

Max.Marks: 80  Time: 3 Hrs.

Unit-I


Monopoly: Sources of Monopoly; Measuring Monopoly Power: Performance and structure based measures of monopoly power; Multi plant Monopoly; Welfare losses under monopoly; Public regulation of Monopoly. Natural Monopolies.


Unit-II

Monopolistic Competition: Indeterminacy of a competitive firm’s equilibrium with declining average cost of production: P Saraffa’s contribution. Chamberlain and the theory of Monopolistic competition: Product Differentiation; Selling Costs/Advertisement; Short and long run equilibrium of a firm/ Group with and without selling costs; the issue of Excess capacity and cost of variety in products.

Formal collusion: Cartels, mergers and amalgamations.
Non-Price Competition: Advertisement: Optimum spending on advertisement by a firm; Advertisement and prices; Advertisement and quality of the products. Advertisement and Social welfare.
Potential Competition in Oligopoly markets: Barriers to Entry. Contestable markets; Limit Pricing.

Unit-III

Markets for Factor Inputs: (largely with reference to Labor).: A Firm’s and Market Demand for a labor (with one and several variable inputs) and its determinants. Supply of labor to a firm and the Market.
Equilibrium Wage Rate and Employment under:

(i) Competitive Factor and Product Market,
(ii) Monopsonistic buyer of Labor and perfect competition in Labor market,
(iii) Imperfect competition in product market and Trade Union Monopoly in labor market,
(iv) Bilateral Monopoly.

**Unit-IV**

Welfare economics: Pareto efficient resource allocation; Pareto efficiency versus Pareto Optimality; Welfare Functions and the Pareto criterion; Compensation criteria; Pareto efficiency and competitive markets: First and second theorem of welfare economics, Arrow’s impossibility theorem. Efficiency versus Equity: John Rawls on Social Justice.

Market failure and its causes:

(i) Markets with Imperfect Competition;
(ii) Markets with Asymmetric information: Adverse Selection and Moral Hazards.
(iii) Consumption and Production Externalities;
(iv) Common Property Resources,
(v) Public goods.

**NOTE**: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

**Essential Readings**


Further Readings


Ryan W J L and Pearce, D W (1977) : Price Theory, Mc Millan India, New Delhi


III . 3 - DEVELOPMENT ECONOMICS - I

Max.Marks: 80

Time: 3 Hrs.

Unit-I

Understanding Development: Living in a heterogenous world-Islands of prosperity and how the other three quarters live. Dividing the world and levels of development( Development as an evolving concept i.e Development, Growth and Change; Goulet’s three core values of development; Sen’s Conception of Development; Income/Output based measures and their inadequacies; PQLI and HDI as indicators of development).

Unit-II

Diverse Structures and Common Characteristics of Developing Nations: Size and income level( The Vicious Circle of Poverty and Low Level Equilibrium Trap), Historical Background (Colonialism and Dependence), Meaning of dualism, its characteristics and forms, Resources and Technology( Quantum and Quality of Natural Resources, Physical Capital, and Technology); Values and Institutions.

Unit-III

Theories of Development: David Ricardo; Karl Marx; Schumpeter and Rostow’s Theory of Stages of Economic Growth.

Unit-IV

Population Growth, Economic Development and environment : The Historical Changes in World Population, Demographic Transition, interrelation between population growth and economic development (from pessimism to optimism), Sustainable development( conceptualization., concerns, indicators, and remedial measures).

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Essential Readings:

Thirlwall, A. P.(2003),


**Further Readings**


III . 4 – Accounting and Financial Management
Max. Marks: 80 Time: 3 Hrs.

Unit-I
Meaning and Scope of Accounting: Accounting concepts and conventions. Double entry system of accounting, Preparation of Journal, Ledger and Trial Balance

Unit-II
Distinction between capital and revenue items. Preparation of trading and profit and loss account and balance sheet

Unit-III

Unit-IV
Objectives and functions of Financial Management.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Recommended Readings :
III.5 - Statistics for Economic Analysis

Max. Marks: 80 Time: 3 Hrs.

Unit-I

Introduction: Basic concepts: Population, Sample, Parameter, Statistic, frequency distribution, Cumulative frequency distribution; Graphic and diagrammatic representation of data; Techniques of data collection. Sampling vs. Population, primary and secondary data.

Central Tendency and Dispersion: Measures of Central tendency: Mean, Median, Mode, Geometric mean, Harmonic mean; Measures of dispersion: Range, Quartile deviation Mean deviation, Standard deviation; Skewness and Kurtosis, Moments.

Unit-II

Correlation and Regression: Correlation: Simple; Coefficient of correlation; Karl Pearson and Rank correlation; Partial and Multiple Correlation analysis; Regression analysis – Estimation of a regression line in a bivariate distribution, Least squares method; Interpretation of Correlation and regression coefficients; Coefficient of determination.

Unit-III

Time Series and Index Numbers: Time Series Analysis - Concept and components, Determination of trend (Linear, Quadratic and Exponetial) and seasonal indices; Index Numbers – Concept, price relative, quantity relative and value relative, Laspeyer's, Paasche’s and Fisher’s index numbers; Family budget method; Problems in the construction and Limitations of index numbers; Tests of an ideal index number.

Unit-IV

Probability and Distribution: Probability: Concepts, Rules of probability (Addition and Multiplication); Random Variables; Mathematical expectation; Theoretical distribution – Binomial, Poisson and Normal; their properties, uses and application.

Sampling and Testing of Hypotheses: Random Sample; concept of sampling distribution; Concepts of testing of hypothesis and test of significance; tests of significance of proportion, mean, variance and regression coefficients (based on z, t, and F distributions only).

NOTE: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Reading List
Essential Readings:


Further Readings:


Wonnacott, TH & Wonnacott, R J : Introductory Statistics for Business and Economics

Freund, John E (1979) : Modern Elementary Statistics


Yale, G V & Kendal, M G (1965) : An Introduction to Statistics

Beals, R E (1972) : Statistics for Economists – An Introduction

IV.1 - Data Base of Indian Economy and Computer Analysis of Data

Max. Marks: 80

Time: 3 Hrs.

A. **Data Base of Indian Economy:**

   **Unit-I**

Importance of data in economic analysis and Policy formulation.

Nature and Types of data: Sample, Census, Primary, Secondary, Micro, Aggregative etc. Statistical and Data Collection system in India at the Centre and in the States. Major Statistical Publications in India.

   **Unit-II**

Population, National Income, Agriculture, Industry, Employment and Labour, Wages and Prices, Public Finance, Money Supply and Banking, Foreign Trade, Consumer Expenditure, Health and Education. Statistics in India: Aspects of each on which data are available, main data publications in each category and conceptual and empirical problems in the use of each types of these statistics.

B. **Computer Analysis of Data**

   **Unit-III**

(i) **Introduction to Microsoft Excel and Lotus 1-2-3**

- Creation of worksheets; Data entry, formatting, sorting and validation;
- Importing and exporting of data files and web queries.
- Uses of mathematical, financial and statistical function and what if analysis.
- Data Analysis: ANOVA, Correlation, F-test, Z-test and t-test.
- Creation of diagrams and graphs.
- Regression and Forecasting using worksheets.

(ii) **Introduction to Microsoft Power Point**:
Preparation of presentations in Power point using design template and Text structure layouts.

**Unit-IV**

(iii) **Introduction to Window based Statistical Packages**

- Creation of data files, assigning names and labels to variables, sort cases, split files, import/export of files.

- **Data Analysis**: Descriptive statistics, Comparing means, Correlation, ANOVA, parametric and non-parametric tests, Regression Analysis and preparation of graphs and diagrams.

**NOTE** : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

**Essential Readings:**

Raza, M, Naqvi, S & Dhar, J : Sources of Economic and Social Statistics in India. Eureka Publications, New Delhi


IV.2 - Macro Economics - I

Max. Marks: 80

Time: 3 Hrs.

Unit-I

Meaning and Importance of Macro Economics. Concept and problems of measurement of income, output, employment and price level at the macro level.

Unit-II

Simple Keynesian model of income and employment determination in terms of Keynes Cross Diagram. Theories of Consumption spending: Absolute, Relative, Permanent income and Life-cycle hypotheses.

Unit-III

Theories of investment spending: Keynesian, Accelerator and Neo-classical.
Functions and definition of Money.
Determination of Money Supply: Credit creation by Banks and Money Multiplier.

Unit-IV

Theories of Demand for Money: Quantity Theory and Keynes approach. Baumol and Tobin Contributions and Friedman’s restatement of quantity theory.

Derivation of IS and LM curves and their shifts and rotations.

NOTE: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.
Essential Readings:

Shapiro, E (2003)  
Macroeconomic Analysis, Galgotia Publications, New Delhi.

Eugene Diulio (2005)  

Further Readings:


Froyen, R (2002)  
IV.3 – Development Economics - II

Max. Marks: 80  Time: 3 Hrs.

Unit-I

**Economic Growth and Structural Change**: Structural Changes in the composition of gross domestic product, occupational structure, Structure of capital accumulation; and accumulation of human capital; exploring the relationship between economic development and income distribution (Kuznets’ inverted U-shaped curve and augmented Kuznets’ curve).

Unit-II

**Agriculture-industry interface**: interdependence between agriculture and industry; industrialization and urbanization (The models of Lewis, Fei and Ranis and Todaro); The Balanced Growth Doctrine (Review of Rosenstein, Nurkse and Lewis); The Strategy of Unbalanced Growth (Hirschman’s version), and the reconciliation of the two.

Unit-III

**Economic isolation and integration with the Global Market**: International trade and economic Development (Three stories about trade and development relationship); Developmental aid - Role, trends and Constraints; Role of Foreign Direct Investment (FDI) and Multi-national Corporations (MNCs) in the emerging scenario.

Unit-IV


**NOTE**: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

**Essential Readings**

Agarwala, A.N. and S.P. Singh eds. (1977)  
"The Economics of Underdevelopment ", Third impression, Oxford University Press, New Delhi.

Chenery, Hollis and Moises Syrquin :  


IV. 4 - Economics of Agriculture

Max. Marks: 80  
Time: 3 Hrs.

Unit-I

Introduction: Definition, scope and nature of agricultural economics; Need for a separate study of agricultural economics. Agricultural Linkages with other sectors, Role of agriculture in economic development (historical evidence from Europe, USA and Japan) and Declining importance of agriculture in Economic development.

Unit-II


Unit-III

Transformation of Agriculture: Schultz thesis of transformation of traditional agriculture and Green Revolution in Indian agriculture.

Agricultural Markets: Aim, Types and Functions of agricultural markets, Criteria for judging efficiency of agricultural market systems.

Unit-IV

Agricultural Credit: Importance of credit, Need for Government intervention, agricultural credit system in India.

Agricultural Price Policy: Need, Objectives, and instruments of agricultural price policy; Agricultural price policy in India.

NOTE: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Essential Readings

Soni R.N(2005) : Leading Issues in Agricultural Economics
Further Readings


Metacalf, D (1969) : The Economics of Agriculture, Penguin
IV.5 - Econometrics

Max. Marks: 80  Time: 3 Hrs.

Unit-I

Introduction: Definition, Scope, and Methodology of econometrics; Nature and sources of data for econometric analysis; Specification of an econometric model.

Simple and Multiple Regression Models: Estimators (OLS) and their properties; Statistical inference; Tests of significance and tests of restrictions.

Unit-II


Unit-III

Test Procedures and Model Selection: Tests of specification and mis-specification, measurement errors, encompassing models, and criteria for model selection.

Unit-IV

Dynamic Models: Lags in econometrics, Distributed and autoregressive lags, Koyck model, Adaptive Expectation and Partial Adjustment approaches for rationalisation of koyck model; Granger Causality and exogeneity.


NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.
# READING LIST

**Essential Readings: Gujarati**

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<th>Author</th>
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**Further Readings:**

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<th>Author</th>
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<tbody>
<tr>
<td>Maddala, G S (1997)</td>
<td>Econometrics</td>
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<tr>
<td>Green, William (2000)</td>
<td>Econometric Analysis (4&lt;sup&gt;th&lt;/sup&gt; Ed.)</td>
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</tbody>
</table>
V.1 - HISTORY OF ECONOMIC THOUGHT - I

Max. Marks: 80 Time: 3 Hrs.

Unit-I

Nature and Importance of Economic Thought. Relativist and Absolute approaches to Economic Thought.

Mercantilism: Views on Trade, Money and Prices, Wages and Employment.

Unit-II

Physiocracy: Natural Order; Net product and Circulation of Wealth.

Classical Political Economy. Adam Smith: Theories of Value, Distribution and Growth.

Unit-III

Ricardian Economics: Value Analysis, Theories of Trade and Distribution, Views on Machinery and Employment, Ricardo-Malthus glut controversy,

Unit-IV


NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Reading List

(As Given at the end of History of Economic Thought – II)
V.2 - Macro Economics - II

Max. Marks: 80

Time: 3 Hrs.

Unit-I

Classical and Keynesian Models of income and employment determination. Wage-price flexibility and automatic full employment debate.

Unit-II


Unit-III

Trade Cycle Explanations: Multiplier – Acceleratory Theory and Hicks Theory.


Unit-IV

Macro Policy: Types and objectives. Conflict among objectives and its consequences. Effectiveness of Monetary and fiscal policies under different situations in terms of IS-LM framework.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.
READING LIST

Essential Readings:


Further Readings:


V .3 - Basics of Financial Markets

MaX. Marks: 80 Time: 3 Hrr.

Unit-I


Unit-II


Unit-III

Call money market, Treasury bill market; Commercial bill market; Market for gilt-edged securities, Markets for derivatives, futures and options.

Unit-IV

Regulation of Financial Markets: Securities and Exchange Board of India, Role and Functions.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Essential Readings :


Fabozzi Frank, J Modigliani : Foundation of Financial Markets and Institutions, Pearson Ed.

**Further Readings :**


Reserve Bank of India : Various Reports

Government of India : Economic Survey
V.4 - ECONOMICS OF INDUSTRY

Max. Marks: 80

Time: 3 Hrs.

Unit-I
Scope and methods of Industrial Economics; Basic concepts of firm, industry and market; organizational forms. Separation of ownership from management and control. Alternative goals of firm: Neo-classical and contributions of R Marris and Williamson.

Unit-II
Elements of Market Structure: Sellers’ and buyers’ concentration, product differentiation, conditions of entry. Determinants and measurement of sellers’s concentration.

Growth of firms: Vertical integration, diversification, mergers and acquisitions.

Unit-III

Unit-IV
Allocative efficiency: Market structure and profitability. Productive efficiency : Degree of sub optimal capacity.
Theory of industrial location, contribution of Weber and Sargent Florence.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Essential Readings:
Martin, Stephen (1989) : 

Clarke, R (1985) : 
Industrial Economics, Blackwell Publishers, Oxford

Shepherd, William G (1990) : 
The Economics of Industrial Organization

Scherer, F M & Ross, David (1990) : 

Koutsonyiannis (1979) : 

Bains, J S (1959) : 
Industrial Organization. University of California

Further Readings:

Waldman, Don E & Jensen, Elizabeth J (2005) : 

Hay and Morris (1998) : 
Industrial Economics (2nd ed.) Oxford University Press, London
V.5 - Optimization Techniques and Game Theory

Max. Marks: 80  Time: 3 Hrs.

Unit-I

The General optimizing problem. Types of Maxima, the Weierstrass theorem, and local Global theorem.

The linear programming. The Dual problem of linear programming. The simplex algorithm.

Unit-II

Nonlinear programming: No inequality constraint. The Kuhn Tucker conditions, the Kuhn Tucker theorem. Solution algorithm.

Unit-III

Dynamic optimization: The control problem – statement and types of control. The control problem as one of programming problem in an infinite dimensional space; the generalized weierstrass theorem.

Approaches to control problem: (a) calculus of variation; Euler equation, necessary conditions and transversality conditions, constraints; (b) Dynamic programming: The principle of optimality and Bellmen’s equation. Dynamic programming solution of multistage optimization problem. (c) Maximum Principles : costate, the hamiltonion and the maximum principle, the interpretation of the costate variables.

Unit-IV

Game Theory: Classification and description of Games, Two person-zero sum games. two person non-zero sum games. Cooperative games. Games with infinitely many players.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory
Essential Readings:


Further Readings


Lancaster, V. (1965) Mathematical Economics


VI.1 - HISTORY OF ECONOMIC THOUGHT - II

Max. Marks: 80                      Time: 3 Hrs.

Unit-I


Unit-II

Jevon’s Theory of Value, Bohm-Bawerk’s Theory of Capital.

Unit-III

Walras’s Theory of General Equilibrium.

Unit-IV

Features of Neo-classical economics. Recent contributions with reference to select Nobel Laureates

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

Essential Readings


Dobb, Maurice (1973) : Theories of Value and Distribution since Adam Smith.
Sweezy, Paul M (1945) The Theory of Capitalist Development

Further Readings

Collander, D C (Ed.) : Neo-Classical Economists
Mandel, E (1971) : Marxist Economic Theory, Upra & Co
Samuel Hollander (1987) : Classical Economics
VI .2 - HUMAN RESOURCE DEVELOPMENT

Max. Marks: 80                      Time: 3 Hrs.

Unit-I

**Human Resource Development (HRD):** Concept, nature, scope, significance, objectives, functions; Traditional and modern approaches; Human Resource Development and Manpower Planning (Genesis, Growth and Thrust Areas).

Unit-II

**Human Capital:** Concept of human capital and its determinants, problems of measurement; An appraisal of underlying theories of Human capital formation particularly in the context of developing Economies; Role of public and private investment in human capital formation; Economics of education (formal, informal, on-the-job training and re-training), models of Becker, Mincer-Chiswick: An introduction to economics of health and nutrition.

Unit-III

**Functioning of Market for Human Resources:** Internal allocation and brain drain, asymmetric information and functioning of the human resource market; Migration (Theories, and the emerging challenges); Managing Human Resources (Demand and supply forecasting, wages, incentives- productivity relationship, economics of discrimination).

Unit-IV

**Human Resource Management Practices:** Human Resource Management in developed countries, and India (in Public Enterprises and small undertakings); Emerging human resource management concepts and systems in the new millennium; Human Resource Information System.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Essential Readings


**Further Readings**

Oxford University Press, New Delhi.

Solow, R M (1990) Labour Market as an Institution, Blackwell,
London.


Relations: Dynamics of Change. Sage
VI .3 – Economics of Public Finance

Unit-I


Unit-II

Types of Government Budgets: Revenue account, Capital Account and different concepts of budgetary deficits in the Indian context. Economic and functional classification of Central Govt. Budgets.

Unit-III

Sources of Public Revenue: Tax and Non-tax sources, ad valorem and specific taxes, progressive and proportional taxes, direct and indirect taxes.

Approaches to tax equity: Benefit principle; Ability to pay principle. Theory of Incidence of Indirect taxes. Taxable capacity: meaning and determinants.

Unit-IV

Public expenditure: Rationale for the growth of public expenditure: Wagner’s law of increasing state activities; peacock-Wiseman hypothesis. Canons of public expenditure.

Changing Trends and Pattern of direct and indirect taxes in India. Changing trends and pattern of government expenditure in India. Recent tax and expenditure reforms in India.

NOTE : The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

Essential Readings :


Atkinson, A B and Stiglitz, J E: Lectures on Public Finance


Govt. of India, Ministry of Finance: 9th, 10th and 11th Finance Commission Reports

VI - Environmental Economics

Unit - I

**Introduction to Environmental Economics**: Introduction; The economy and the environment: inter-linkages; First two laws of thermodynamics

**Economic Efficiency and Market Failures**: Market solutions and efficiency; Market failures; Problem of externalities; Public goods and public bads; Common property resources; Non-convexities; Asymmetric information.

Unit - II

**Economics of Pollution**: Damage functions and abatement cost functions; Marginal decisions; Optimal level of pollution; Market solutions and government actions; Economic incentives and least-cost solutions; Command and control policies.

Unit - III

**Valuing the Environment**: Economic valuation of environmental goods; Types of environmental values; Monetary valuation techniques; Non-monetary valuation techniques; Comparing methodologies.

Unit – IV

**Cost-Benefit Analysis and the Environment**: The theory of cost-benefit analysis; Idea of discounting and choice of discount rate; Framework for cost-benefit analysis; Discounting and future generations.

Economic Growth and Sustainable Development: Economic growth and development; The environmental Kuznets curve; Economics of sustainable development

International Environmental Issues: Economics of climate change; Trade and the environment

**NOTE**: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory

VI.5 – INTERNATIONAL ECONOMICS

Max. Marks: 80 Time: 3 Hrs.

Unit-I

**Importance of Trade and Trade Theories:** Importance of the study of international economics: Inter-regional and international trade, Theories of absolute advantage, comparative advantage and opportunity costs, Heckscher-Ohlin theory of trade – its main features, assumptions and limitations.

Unit-II

**Theory of Interventions:** Trade as an engine of economic growth; Terms of Trade: Concepts and measurements of terms of trade, Secular Deterioration Hypothesis. Doctrine of reciprocal demand – its importance and limitations in the theory of trade. Types of Tariffs and quotas; their impact in partial equilibrium analysis; Free trade and policy of tariffs in relation to economic growth with special reference to India. Various forms of economic integration; The Theory of Custom Union. Static and Dynamic effects of customs union.

Unit-III


Unit-IV

**International Economic Institutions:** Functions and Achievements of GATT/WTO. Impact of WTO on different sectors of Indian Economy. Problems of International Liquidity. Proposals for International Monetary Reforms and IMF. Developing Countries and the reform of International Monetary System.

Recent Trends towards Trade Liberalization Policies in India and their implications for Trade and Growth. Role of Multinational Corporations in Developing Countries with special reference to India.
NOTE: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight to ten short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, unit five shall be compulsory.

**Essential Readings:**


**Further Readings**

