

B.A. Part III
2012, 2013 and 2014 Examinations
Economics

Paper-I: Economics of Development

Max. Marks : 100

Time Allowed: 3 hours

Pass Marks: 35%

5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Economic Growth and Development. Main Features of an Underdeveloped Economy. Determinants of Economic Development. Capital Formation: Its Sources. Nurkse's Thesis of Disguised Unemployment. Lewis Theory of Unlimited Supply of Labour. Dualism: Social and Technological.

SECTION-B

Classical, Marxian and Schumpeter's Model; Harrod-Domar Model; Single (one) Sector Neoclassical Model of Growth. Kaldor's Model. Poverty and Development: Amartya Sen's View.

SECTION-C

Strategies of Economic Development: Balanced Vs Unbalanced Growth. Leibenstein's Critical Minimum Effort Thesis. Theory of Big-Push and Rostow's Theory of Stages of Growth.

SECTION-D

Theory of Planning in Developing Countries: Need, Objectives, Strategies and Problems of Planning, Price Mechanism and Planning. Input Output Analysis. Investment Criteria. Choice of Technique. Export Promotion and Export Substitution Strategy.

RECOMMENDED READINGS

1. G.M. Meier (Ed.): *Leading Issues in Development Economics*, Oxford University Press, New York, 1964, pp. 3-47, 231-265, 464-496.
2. W.W. Rostow: *Stages of Growth*, Cambridge University Press, 1991, pp. 1-92.
3. Benjamin Higgins: *Economic Development, Principles, Problems and Policies*, Central Book Depot, Allahabad, 1966, pp. 3-24, 85-143.
4. *Development Economics: A Text and Reference*, G.K. Narayan, 1967, pp. 1-19.
5. G.M. Meier and James E. Ranch (Ed.): *Leading Issues in Economic Development*.
6. Nurkse: *Problems of Capital Formation in Underdeveloped Economies* (Oxford).

SUPPLEMENTARY READINGS

1. Michael Todaro: *Economic Development in the Third World* (almost entire book).

Paper-II: QUANTITATIVE METHODS

Max. Marks : 100

Time Allowed: 3 hours

Pass Marks: 35%

5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines. The use of simple calculator is allowed.

SECTION-A

Elementary Idea of Sets and Function: Simple Derivation. Differentiation of simple functions-Polynomial (x), Exponential (a^x , e^x) Logarithm ($\log x$) except abinitio method and Trigonometric functions. Maxima and Minima of functions of one variable only. Simple applications of derivative in Economics.

SECTION-B

Matrices: Definition and Types, Operations (Sum, Difference) Product and Transpose, Adjoint and inverse of a matrix (upto 3×3) Solution of simultaneous equations (up to 3) by matrix methods.

Measures of Central Tendency: Mean, Median, Partition Values, Mode, Measures of Dispersion (except Lorenz Curve), Skewness and Kurtosis.

SECTION-C

Correlation Analysis: Karl Pearson's (excluding grouped data) and Spearman's rank formula and Simple Regression Analysis.

Interpolation: Binomial Expansion method, Newton's Advancing Difference Method and Lagrange's Method.

SECTION-D

Index Numbers: Concepts, Problems and Importance, Simple Index Numbers, Laspeyre's, Paasche's and Fisher's index numbers only (among weighted index numbers) and Reversibility Tests.

Time Series Analysis: Components of Time Series, Determination of Trend, Moving Average Method and Least Square method.

RECOMMENDED READINGS

1. Archibald, C.C. and Lipsey, R.G.: *An Introduction to a Mathematical Treatment of Economics*, 1977, English Language Book Society, Chs. 4, 6 and 7.
2. Sanchati, D.C. and Kapoor, V.K.: *Business Mathematics*, New Delhi, Sultan Chand & Sons, 1993, Chs. 16, 17 and 20.
3. Gupta, S.C. : *Fundamentals of Statistics*, Bombay, Himalaya Publishing House, Chs. 5,6,7,8,9, 10 and 20.

B.A. Part III
2012, 2013 and 2014 Examinations

ECONOMICS (HONOURS)

The candidates will be required to study two papers in B.A. Part II and two papers in Part-III from the following list of papers, but the papers selected in B.A. Part III must be different than those selected in B.A. Part II.

1. Economics of Agriculture
2. Agricultural Marketing
3. Public Finance
4. Money and Banking
5. History of Economic Thought
6. International Economics
7. Industrial Economics
8. Economics of Public Enterprises
9. Computer Applications in Economics
10. Econometrics

ECONOMICS OF AGRICULTURE

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Economics of Agriculture: Meaning and Scope, Inter-dependence between agriculture and industry and Nature and problems of agricultural development in developing countries.

SECTION-B

Transforming Traditional Agriculture: Lewis, Renis and Fei, Schultz and Mellor Models.

SECTION-C

Land reforms and system of farming, Farm size and productivity relationship, Agricultural price policy and Agricultural taxation (All these topics should deal with special reference to India).

SECTION-D

New agricultural strategy and green revolution. Problems of small farmers and agricultural labourers. Agricultural credit, Marketable and marketed surplus. Surplus labour and its utilization. (All these topics would deal with special reference to India).

RECOMMENDED READINGS

1. R.N. Soni: *Leading Issues in Agricultural Economics*, Shoban Lal Nagin Chand & Co., Jalandhar, 1992, Chs. 1, 2, 3, 4, 8, 11, 12, 16, 23, 24, 26, 27, 28 and 29.
2. C. Eicher and L. Witt: *Agriculture in Economic Development*, Vora & Co., Bombay, 1970, Chs. 1,5,9,11,16 and 17.

3. Charan D. Wadhva : *Some Problems of India's Economic Policy*, Tata McGraHill, Bombay, 1973, Part Two; Articles-B,C, DF&G.
4. A.M. Khusro: *Readings in Agricultural Development*, Allied Bombay, 1968, Articles by: B.S. Minhas & T.N. Srinivasan, V.M. Dandekar, M.L. Dantwala, A.M. Khusro, T.Bergman, V.K.R.V. Rao.
5. P.C. Joshi: *Land Reforms in India*, Allied, Bombay, 1976, Part II, Sections I and II.
6. T.W. Schultz: *Transforming Traditional Agriculture*, Lyall Book Depot, Ludhiana, 1970.
7. J.W. Mellor: *The Economics of Agricultural Development*, Vora and Co., Bombay, 1966.
8. Michael P. Todaro: *Economic Development in the Third World*, Orient Longman, New Delhi, 1987.
9. Francis R. Frankel: *India's Green Revolution-Economic Gains & Political Costs*, Oxford University Press, Bombay, 1971.
10. Misra & Puri: *Indian Economy*, Himalaya Publishing House, Bombay, 1993, Chapter 30.
11. Singh & Sandhu: *Agricultural Problems in India*, Himalaya Publishing House, Bombay, 1986.
12. nkoHe/H wjkiBL y/shpkVh dk noEPk;so, gzikph :{Bhtof;Nh gpbhe/PB, 1995H

SUPPLEMENTARY READINGS

1. Sameeksha Trust, Bombay, Various Issues: *Economic and Political Weekly*.
2. Indian Society of Agricultural Economics, Bombay, Various Issues: *Indian Journal of Agricultural Economics*.
3. New Delhi, Various Issues: *Agricultural Situation in India*.

AGRICULTURAL MARKETING

Max. Marks : 100

Time Allowed: 3 hours

Pass Marks: 35%

5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Marketing: Definition, Scope, Marketed and marketable surplus, factors affecting marketable surplus, size, distribution of marketable surplus, nature of demand and supply of agricultural commodities.

SECTION-B

Mobilisation of agricultural surpluses, terms of trade between agriculture and industry, income and price-elasticities of agricultural commodities. Cob Web model.

SECTION-C

Structure and functioning of agricultural markets, marketing margin, marketing efficiency, measures to improve marketing efficiency.

Foodgrain marketing system in India, State intervention in foodgrain marketing, role of different agencies (FCI, State Agencies, State Department).

SECTION-D

Marketing of major agricultural commodities in India (Foodgrains, commercial crops). Price expectation and price uncertainties, price stabilization measures. Agricultural Finance and Agricultural Marketing.

RECOMMENDED READINGS

1. A.S. Kahlon & M.V. George: Agricultural marketing and price Policies, Allied Publishers, New Delhi, 1985, pp. 336, 173-7.
2. A.S. Kahlon & D.S. Tyagi: Agricultural Price Policy in India, Allied Publishers, New Delhi, 1983.

3. Dala C. Dhal & Jeroma W. Hummod: Market and Price Analysis-The Agricultural Industries; Mc Graw Hill Book Company, 1977, pp. 1-62, 88-138.

SUPPLEMENTARY READINGS

1. Richard, L. Nols: Marketing of Agricultural Production, Macmillan, New York, 1968, pp. 20-36, 109-130,181-203, 201-252.
2. Rajbans Kaur: Agricultural Pricing Policies in Developing Countries, Kalyanai Publishers, Ludhiana, 1984.
3. Uma J. Lele: Foodgrain Marketing in India, Popular Prakshan, Bombay, 1973.

PUBLIC FINANCE

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

The Principles of Public Finance: Subjective and Objective criteria.

Theory of Public Expenditure: Principle of Maximum Social Advantage, Theory of Social Goods: Distinction between public, private and merit goods. Public expenditure and economic growth. Effects of public expenditure on production, distribution, social over-head capital, stability and innovation. Criteria of public expenditure.

SECTION-B

Theory of Public Revenue: Theories of Taxation – benefit principle, cost of service principle, ability to pay theory of principle of equity. Effects of taxation. Analysis of major taxes-income tax, expenditure tax, corporation tax, wealth tax, excise duties, sales tax (VAT), custom duties. The Concept of Taxable Capacity: Taxation in a developing economy. Fiscal Incidence: theories of tax shifting; concepts of incidence, measurement of incidence.

SECTION-C

Public Debt: Role of public debt. Different forms of public debt, Burden of public debt, Redemption of public debt. Debt management.

Budgetary Policy: Functional and Economic Classification of budgets and their uses. Performance budget, Budget as an instrument of mobilisation and channellisation of resources and redistribution of income and wealth.

SECTION-D

Balanced and unbalanced budgets.

Fiscal Federalism: Principles of federal finance.

Development Finance: Functional Finance vs. Development Finance.

Mobilisation of financial resources for planned development.

SUGGESTED READINGS

1. Musgrave, R.A. : *Theory of Public Finance*.
2. Tay Philip: *The Economics of Public Finance*.
3. Buchanan, J.M.: *The Public Finance*.
4. Gupta, J.R.: *Public Economics in India: Theory and Practice*.

MONEY BANKING

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate is required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Money and near money. Demand for money; quantity and cash balance theories of money, latest development in the theory of money, Don Patinkin, Friedman and Gurley and Shaw's approaches.

SECTION-B

Supply of Money; Components and determinants, Money Multiplier, Structure of rate of interest approaches. IS and LM functions. Neutrality and non-neutrality of money. Integration of theory of value and theory of money.

SECTION-C

Banking: Commercial banks; their functions and importance Credit-creation; Central banking; functions and techniques of monetary management.

Financing institutions and their role. Role of non-banking financial intermediaries. Monetary Policy in India, objectives and instruments.

SECTION-D

International Monetary Cooperation, International Monetary Fund, International Bank for Reconstruction and Development, International Finance Corporation and International Development Association. Asian Development Bank.

SUGGESTED READINGS

1. Lockett, D.C.: *Money and Banking*.
2. Thorn, R.S.: *Introduction to Money and Banking*.
3. Leidle, B.E.W.: *The Demand for Money Theories and Evidence*.
4. Gupta, S.B.: *Monetary Planning in India*.

HISTORY OF ECONOMIC THOUGHT

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate is required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Pre-Classical Economic Thought: Mercantilism: Mercantilist ideas, regulations of Economic life, leading theory of mercantilist school, Physiocracy: ideas with special reference to Quesnay and Turgot.

SECTION-B

Classical and Marxian Political Economy: The classical tradition: Adam Smith, Ricardo, J.S. Mill and Karl Marx on value, distribution and development.

SECTION-C

Reaction against Classicism: Socialist and Nationalist thinkers, Sismondi, Saint-Simon, Robert Owen and Charles Fourier, Subjective School: Menger, Weiser and Bohm Bawark.

SECTION-D

Neo-Classicism and New Economics: Neo-classical School, Value Theory, Schumpeter on economic development, Keynes.

RECOMMENDED READINGS

1. Eric Roll : *History of Economic Thought*, Oxford University Press, Calcutta, 1974.
2. M. Blaug: *Economic Theory in Retrospect*, Richard D. Irwin Inc. Illinois, 1968.
3. Gide & Rist: *A History of Economic Doctrines*, George G. Harrap & Co. Ltd., London, 1964.
4. P.M. Sweezy: *The Theory of Capitalist Development*, K.P. Bagchi & Co., Calcutta, 1991.

SUPPLEMENTARY READINGS

1. B.N. Ghosh & Rama Ghosh : *Concise History of Economic Thought*, Himalaya Publishing House, Delhi, 1980.
2. J.A. Schumpeter : *History of Economic Analysis* (Selected portions), George Allen & Unwin, London, 1961.
3. R.R. Paul: *Classical Political Economy*, Kalyani Publishers, Delhi, 1979.

INTERNATIONAL ECONOMICS

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carry 4 marks. The candidate is required to give answer of each short type question in 50 words, i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words, i.e. in 7-10 lines.

SECTION-A

The Pure Theory of International Trade: Theories of Absolute Advantage, Comparative Advantage and Opportunity costs. Heckscher-Ohlin Theory. Factor Price Equalisation. Gains from trade, their measurement and distribution. Terms of trade, secular-deterioration hypothesis.

SECTION-B

Commercial Policy: The theory of tariffs, Optimum and effective rate of tariff, inter-relationship between trade, aid and economic development. The theory of economic integration among nations; forms of economic integration. The theory of Customs Union.

SECTION-C

Balance of Payments, Exchange Rate and Trade Structure: The process of adjustment in the balance of payments. The concept of foreign trade multiplier. Fixed Vs. flexible exchange rates and their relative merits and demerits. Structure of trade, trade between developing and developed countries. Unequal Exchange and its impact on Balance of Payments. Current problems of trade and finance of developing Countries. Role of multinational corporations in the developing countries.

SECTION-D

International Monetary System: IMF and international monetary system, present international monetary system, problems of international liquidity. Proposals for international monetary reforms. New International Economic Order.

RECOMMENDED READINGS

1. Bo Sodersten: *International Economics*, IInd Edition, Macmillan Press, London, Reprint 1990. Parts I, II, IV and V.

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SUPPLEMENTARY READINGS

1. C.P. Kindleberger: *International Economics*, Richard Irwin, Homewood, Illinois, Indian, Edition 1977, Parts I, II, IV and V.

INDUSTRIAL ECONOMICS

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate is required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Scope and methods of Industrial Economics; Basic concepts of firm, industry and market; organisational forms and alternative motives of the firms; Industrial structure and economic development.

SECTION-B

Market Structure: Sellers concentration, product differentiation, conditions of entry and economies of scale, market structure and profitability.

Growth of firms: Vertical integration, diversification, mergers and innovation, constraints on growth-demand, financial and managerial.

SECTION-C

Theory of industrial location: contribution of Weber and Sargent Florence, centralised vs. balanced regional development, industrial concentration and dispersal in India.

SECTION-D

Industrial policy since independence, Industrial development under plans and reasons for deceleration of industrial growth, Growth of State industrialisation in India.

RECOMMENDED READINGS

1. R.R. Barthwal: *Industrial Economics: An Introduction Text Book*, Wiley Eastern Ltd., New Delhi, Chs. 1, 3, 4, 6, 8, 9, 16 & 17.
2. S.C. Kuchhal: *The Industrial Economy of India*, (latest edition). Allahabad, Chaitanya Publishing House, Chs. 7, 15 and 18.
3. P.J. Devine et. al. : *An Introduction of Industrial Economics*.
4. W. Steward Howe: *Industrial Economics: An Applied Approach*, The Macmillian Press Ltd., Chs. 3, 5, 6, & 7.

5. Datt & Sundharam: *Indian Economy (latest edition)*, S. Chand and Company, Chs. 10, 27 & 40.

SUPPLEMENTARY READINGS

1. David M. Smith: *Industrial Location: An Economic Geographical Analysis*, John Wiley & Sons Inc., Chp. 8.
2. E.D. Penrose: *The Theory of Growth of Firm*, Oxford Basil Blackwell, Chs. 7 & 8.
3. Harry W. Richardson: *Elements of Regional Economics*, Penguin Education, Ch. 3, pp. 70-78.
4. Ishar Judge Ahluwalia: *Industrial Growth in India: Stagnation since Mid Sixties*, Oxford University Press, Delhi, Ch. 2.
5. Sivayya & Das: *Indian Industrial Economy*, S. Chand & Co., New Delhi, Chs. 4 & 7.

ECONOMICS OF PUBLIC ENTERPRISES

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Concepts: Role of public sector in socio-economic development, Rationale of public sector, Multiple objectives of public enterprises and clash and complementarity in objectives. Historical perspective of public sector in India. Organisation of public enterprises – various forms and role.

SECTION-B

Role of public sector financial institutions in the financing of public enterprises. Problems of Management of Working Capital, Management of Inventory, Credit and Cash Financing of Working Capital.

SECTION-C

Pricing in public sector – Basis and types of pricing policies, pricing practices, machinery of price fixation, Role of B.L.C. & P. Accountability and Profitability of public sector, Causes of poor financial performance of public sector in India.

SECTION-D

Sources of funds of public enterprises – Debt and Equity. Industrial Relations & its importance, Industrial disputes; causes, effects and their settlements.

RECOMMENDED READINGS

1. Laxmi Narain: *Principles and Practices of Public Enterprises Management*, S. Chand & Co., New Delhi, 1980.
2. Institute of Public Enterprises: *Organisation in Public Enterprises*, Tripathi, Bombay, 1967.

3. Institute of Public Enterprises: *Pricing & Investment in Public Enterprises*, Oxford and IBH Publishing Co., New Delhi, Ch. IV, pp. 97-200, 205-322.
4. Laxmi Narain: *Public Enterprises in India*, S. Chand & Co., New Delhi, 1982.

SUPPLEMENTARY READINGS

1. K.R. Gupta: *Issues in Public Enterprises*, S. Chand & Co., New Delhi, 1978.
2. G.S. Bhalla: *Financial Administration of Nationalized Industry in U.K. and India*, Meenakshi, Meerut, 1968.

COMPUTER APPLICATIONS IN ECONOMICS

Max. Marks : 100
Pass Marks: 35%

Time Allowed: 3 hours
5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Introduction to Computers: Simple Model of a Computer; Steps in problem solving on a computer; Data representation; Input Output devices; computer memory; Central Processing Unit (CPU); Computer generations and classifications.

SECTION-B

Introductory Programming: Algorithm, Computer Program and programming languages; Basic data types and declarations; Elementary PASCAL programming using READ and WRITE statements.

SECTION-C

Programming: Control structures (Iterative and conditional), Structured data type (Array only); Introduction to functions and procedures.

SECTION-D

Programming Applications: Development of algorithm and programs for simple statistical and mathematical methods like computation of measures of central tendency, dispersion, correlation, simple regression, Matrix operations (Addition, subtraction, multiplication and Inverse).

RECOMMENDED READINGS

1. V. Rajaraman: *Fundamentals of Computers*, PHI, 1991, Chs. I, II, III, IV and XII.
2. V. Rajaraman: *Computer Programming in PASCAL*, PHI, Delhi, 1990 (full book).

SUPPLEMENTARY READINGS

1. G.M. Schneider and Others: *An introduction to Programming & Problem Solving with PASCAL*, PHI, Delhi, 1984, Chs. I to V.

2. E. Balaguruswami: *Computer Oriented Statistical and Numerical Methods*, Macmillan, 1988 (Full book).

ECONOMETRICS

Max. Marks : 100

Time Allowed: 3 hours

Pass Marks: 35%

5 Periods Per Week(45 Minutes Each)

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of five sections: A, B, C, D & E. Section A, B, C & D will have two questions from the respective sections of the syllabus and will carry 15 marks each. Section E will consist of 10 short answer type questions which will cover the entire syllabus and will carry 40 marks in all, each short answer type question carrying 4 marks. The candidate are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question each from the sections A, B, C and D of the question paper and the entire section E. The candidates are required to give answer of each short type question in 50 words i.e. in 7-10 lines.

SECTION-A

Definition and Scope of econometrics. The methodology of economic research. Specification and estimation of an econometric model. Random variable and probability distribution. Basic concepts: Unbiasedness, efficiency and consistency.

Single Equation Models: Ordinary Least Squares Estimation.

SECTION-B

Testing of Hypothesis: Basic concepts; Type I and II errors. Simple and composite hypotheses; Z, t and F tests. Maximum Likelihood estimation.

SECTION-C

The General linear model in Matrix form. Estimation and properties of the estimators.

Multicollinearity: Its detection and solution.

Heteroscedasticity: Its detection and solution.

SECTION-D

Dummy Variables. The dummy variable trap. Interpretation of slope and intercept.

Lagged Variables: Uses in economics. Estimation Problem, Koyck transformation, and Partial adjustment model.

Estimation of demand function.

Estimation of consumption function.

RECOMMENDED READINGS

1. Johnson, J.: *Econometric Methods*, 20, McGraw Hill, 1984, New York, Chs. 1 to 3 & 9, pp. 225-29, 293-304.
2. Gujarati, Damodar: *Basic Econometrics*, New Delhi, McGraw Hill, 1978, Chs. 2-10, 12-13.

SUPPLEMENTARY READINGS

1. Kendall, M.G. and A. Stuart (eds.): *Advanced Theory of Statistics*, Vols. I & II, Griffin and Co., London.
2. Intrilligator, M.D.: *Econometric Models and Applications*, Prentice Hall, Ch. 1 & 7.
3. Maddala, G.S. : *Econometrics*, New Delhi, McGraw Hill, 1977, Chs. 3, 4, 7, 8, 9 10 & 12.
4. Wallis, K.F. : *Topics in Applied Econometrics*, London, Bray Hills.