

**M.G.S. UNIVERSITY,  
BIKANER**

# **SYLLABUS**

**SCHEME OF EXAMINATION AND  
COURSES OF STUDY**

**FACULTY OF ARTS**

**M.A. ECONOMICS**

**M.A. PREVIOUS EXAMINATION - 2016  
M.A. FINAL EXAMINATION - 2017**



**सूर्य प्रकाशन मन्दिर**

दाऊजी रोड़ (नेहरू मार्ग), बीकानेर 5 (राज.)

## NOTICE

1. The Ordinances Governing the examination in the Faculties of Arts, Fine Arts, Social Sciences, Science, Commerce, Management, Engineering, Education and Law are contained in separate booklet. The students are advised to the same.
2. Changes in Statutes / Ordinances / Rules/ Regulations / Syllabus and Books may from time to time, be made by amendment or remaking, and a candidate shall, except in so far as the University determines otherwise comply with any changes that applies to years he has not completed at the time of change.
3. In each paper, 10 questions will be set, 2 questions from each unit. Candidates have to answer five questions in all taking at least one question from each unit.
4. The syllabus is given in English.
5. The list of text books/ Recommended books/Reference Books as approved by the various B.O.S. are printed along with the English version only.

**Note :** The decision taken by the Academic Council shall be final.

## सूचना

1. कला, इतिकला, सामाजिक विज्ञान, विज्ञान, वाणिज्य, प्रबन्ध अभियान्त्रिकी, शिक्षा एवं विधि संकाय की परीक्षाओं से सम्बद्ध अध्यादेश (आर्डनेंस) पृथक पुस्तिकाओं में संकलित हैं। छात्रों को सलाह दी जाती है कि उनको देखें।
  2. समय-समय पर संशोधन या पुननिर्माण कर अधिनियमों, अध्यादेशों, नियमों, विनियमों, पाठ्यक्रमों व पुस्तकों में परिवर्तन कर अधिनियमों, अध्यादेशों, नियमों, विनियमों, पाठ्यक्रमों व पुस्तकों में परिवर्तन किया जा सकता है तथा किसी भी परिवर्तन को, छात्र को मानना होगा जो पाठ्यक्रम के उन वर्गों के लिए लागू हो जिसे परिवर्तन के समय पूरा नहीं किया हो, बशर्ते कि विश्वविद्यालय ने अन्यथा प्रकार से छूट न दे दी हो।
  3. प्रत्येक प्रश्न-पत्र में 9 प्रश्न होंगे। पाँच खण्डों में से प्रत्येक में 3 प्रश्न होंगे। छात्र को 4 प्रश्नों के उत्तर देना होगा। परन्तु प्रत्येक खण्ड में से एक प्रश्न का उत्तर अनिवार्यतः देना होगा।
  4. पाठ्यक्रम हिन्दी एवं अंग्रेजी दोनों भाषाओं में दिया हुआ है। यदि कोई विसंगति प्रतीत होती है तो अंग्रेजी पाठ्यक्रम को ही प्रामाणिक माना जाय।
  5. विभिन्न पाठ्यक्रम मंडलों द्वारा स्वीकृत पाठ्यपुस्तकों, संस्तुत पुस्तकों, संदर्भ पुस्तकों की सूची अंग्रेजी पाठ्यक्रम में उपलब्ध है।
- नोट : विद्या परिषद् द्वारा लिये गये निर्णय अन्तिम होंगे।

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For M.G.S. University, Bikaner

**SCHEME OF EXAMINATION**

**M.A. PREVIOUS & FINAL**

<b>Each Theory Paper</b>	<b>3 hours duration</b>	<b>100 Marks</b>
<b>Dissertation/Thesis/Survey Report, if any</b>		<b>100 Marks</b>

1. The number of paper and the maximum marks of each paper practical shall be shown in the syllabus for the subject concerned. It will be necessary for a candidate to pass in the theory part as well as in the practical part (wherever prescribed) of a subject/Paper separately. There shall be 5 teaching hours per week in each paper.
2. A candidate for a pass at each of the Previous and the Final Examination shall be required to obtain (i) atleast 36% marks in the aggregate of all the paper prescribed of the examination an (ii) atleast 236% marks in practical(s) wherever prescribed examination, provided that if a candidate fails to secure atleast 25% marks in each individual paper work, wherever prescribed, be shall be deemed to have failed at the examination not with standing his having obtained the minimum percentage of marks required in the aggregate for that examination. No at the end of the Final Examination on the combined marks obtained at the Previous and the Final Examination on the combined marks obtained at the Previous and the Final Examination taken together, as noted below :  
First Division            60%        of the aggregate marks taken together  
Second Division        48%        of the Previous Final Examination  
All the rest will be declared to have passed the examinations.
3. If a candidate clears any paper(s) Practical(s) /Dissertation Prescribed at the Previous and/or Final Examination after a continuous period of three years, then for the purpose of working out his division the minimum pass marks only viz 35% (36% in the case of practical) shall be taken into account in respect of such paper(s) Practical(s) Dissertation are cleared after the expiry of the aforesaid period of three year, provided that in case where a candidate require more than actually secured by him will be taken into account as would enable him to make the deficiency in the requisite minimum aggregate.
4. The Thesis/Dissertation/Survey Report/Field Work shall be typed & written and submitted in triplicate so as to reach the office of the Registrar atleast 3 weeks before the commencement of the theory examination. Only such candidates shall be permitted to offer dissertation/Field work/ Survey report/Thesis (if provided in the scheme of examination) in lieu of a paper as have secured at least 55% marks in the aggregate of all scheme, irrespective of the no. of papers in which a candidate actually appeared at the examination.

**N.B.** (i) Non-Collegiate candidates are not eligible to offer dissertation as per Provision of 170-A.

## EXAMINATION SCHEME OF M.A. PREVIOUS AND M.A. FINAL

There shall be nine papers in all, of these seven papers will be compulsory and two will be optional. The candidates are required to offer four compulsory papers in M.A. Previous and other three compulsory papers and with two papers of the same option group in M.A. Final examination. Each paper will be of 100 marks and 3 hours duration. Students are required to attempt five questions in all selecting at least one question from each unit.

### M.A. PREVIOUS 2016

#### Compulsory Papers :

Paper I	:	Micro Economic Theory
Paper II	:	Macro Economic Theory
Paper III	:	Economic Statistics and Mathematics
Paper IV	:	Public Finance

### M.A. FINAL 2017

#### Compulsory Papers :

Paper V	:	Development Economics and Indian Planning
Paper VI	:	International Economics
Paper VII	:	Comprehensive Economics
Paper VIII, IX	:	Two optional papers of the same group

### M.A. PREVIOUS ECONOMICS EXAMINATION- 2016

#### PAPER - I MICRO ECONOMIC THEORY

3 hrs. duration

Max. Marks : 100

#### Unit – I

Nature of Economic generalizations Significance of assumptions. Concepts of Equilibrium - Partial General, Static, Comparative Static and Dynamic Relevance of Economic theories. Theory and elasticities of demand and supply.

#### Unit – II

Theory of Consumer Behavior.

Utility analysis—cardinal and ordinal approaches, indifference curve approach - Slutsky Equation, consumer surplus. Theory of Revealed Preference. Consumer Behaviour under uncertainty, Neumann-Morgenstern Utility function.

#### Unit - III

Production function, Linear Production function, Cobb-Douglas and CES Production function. Optimum factor combination. Concepts of cost of production and revenue. Linear programming (graphic method only). Equilibrium of the firm and industry in Perfect Competition.

#### Unit – IV

Firm and industry equilibrium under Monopoly, Measurement of the degree of Monopoly, Bilateral Monopoly. Product differentiation and Monopolistic Competition, Non price competition. Simple and Differentiated Oligopoly, Demand and cost function of an individual firm under Oligopoly. Kinky demand curve, Cournot, Bertrand, Edgeworth and Chamberlin Models. Full cost pricing.

**Unit – V**

Factor demand and factor supply, factor price determination under Perfect and imperfect competition. Modern Theories related to the determination of Rent, Wages, Interest and Profit. Marshall's four propositions of derived demand. Euler's theorem. Elasticity of substitution of factors. Pareto optimality conditions for welfare. New welfare Economics, Social welfare function, compensation criteria. Theory of the second best.

**Books Recommended:**

1. Watson, D.S. : Price Theory and its Use.
2. Lipsey, R.G.: An Introduction to Positive Economics.
3. Leftwich, R.H.: The Price System and Resource Allocation (Hindi version is also available).
4. Boumal, W.S. : Economic Theory and Operations Analysis.
5. Stonier, A.W. and D.C. Hague: A Textbook of Economic Theory.
6. Bilas, R.A.: Microeconomic Theory.
7. Koutsoyianis, A. : Modern Microeconomics.
8. Stigler, G.J.: The Theory of Price.
9. Ferguson and Gould; Microeconomic Theory.
10. Robert Dorfman: Prices and Markets.
11. Edwin Mansfield: Microeconomics - Theory and Applications.
12. Joen Dean: Managerial Economics.
13. Cyert, R.M. and J.1. March: A Behavioral Theory of the firm.
14. Backhouse, K.E. : Survey of Contemporary Economics (Article on Welfare Economics)
15. Backhouse, R. : A History of Modern Economics Analysis.
16. Samuelson and Nordhaus : Economics
17. Kogiko, K.C. : Microeconomics Models.
18. American Economic Association: Readings in Welfare Economics.
19. Spencer: Contemporary economics.
20. Bilas, R.A. : The Principles of Micro Economics (Hindi Version)
21. Koch, J.V. : Microeconomics Theory and Applications.
22. Emery, E.D. : Intermediate Microeconomics.
23. Glahe and Lee: Microeconomics, Theory and Application, Analysis.
24. K.P.M. Sunderam & M.C. Vaish: Micro Economic Theory.
25. Joshi J.M. & Rajendra - Micro Economic Theory Analytical Approach
26. Ahuja H.L. - Advanced Economic Theory.
27. Jhingan M.L. - Micro Economics.
28. Barla C.S. - Advanced Micro Economics.

**PAPER - II MACRO ECONOMIC THEORY****3 hrs. duration****Max. Marks: 100****Unit – I**

Nature of Macroeconomics. Fallacy of composition, Basic Concepts. Macroeconomics models (Types), macroeconomics policy-objectives, instrument and constraints, the major school of macro economics theory.

The measurement of Economic Performance: The concept of GNP, NNP, NI etc. System of National Income Accounting: Matrix Representation of national income. Double entry system.

National Income Deflator. National Income of India and recent trends.

### **Unit – II**

Classical model of Determination of level of output, Employment, Prices, Rate of Interest and wage rates, Criticism against classical theory. Keynesian Model of Determination of Income : Partial Equilibrium analysis and General Equilibrium analysis (combination of product market and money market)

### **Unit – III**

Multiplier analysis in four sector economy and Balanced Budget multiplier. Business Cycle - Hicks and Samuelson models. Theories of consumption functions.

### **Unit – IV**

The Demand for and Supply of Money: The traditional version of quantity, theory of Money. Monetarist reformulation of quantity, Theory of Money. Monetarist reformulation of quantity theory and its empirical evidences. Tobin and Baumol's Analysis.

### **Unit - V**

Stabilisation policies : Monetary and Fiscal Policy Objectives. The choices of targets : Intermediate and final targets. The monetarists and Keynesian controversy. The Transmission Mechanism.

Recommendations of the Chakarvarty Committee Report.

#### **Books Recommended:**

1. Ackley, G. : Macroeconomic: Theory and Policy.
2. Shapiro, E. Macroeconomics Analysis.
3. Branson, W.H. : Macroeconomics: Theory and Policy.
4. Rosalind Laevacic : Macroeconomics: The Static and Dynamic Analysis of a Modern Economy.
5. Baumol and Blinder: Macroeconomics.
6. Strop, G. Macroeconomics.
7. Froyen, R.T. : Macroeconomics: Theories and Politics.
8. Vaish, M.C. Macroeconomics.
9. Wrigthsman, D. : An Introduction of Monetary Theory and Policy.
10. Diulio, E.A. : Money and Banking (Schaum's Series)
11. Simkin, C.G.F. : Economics at Large.
12. Evance, M.K. Macroeconomics.
13. Mueller, M.G. : Readings in Macroeconomics.
14. Dornbush and Fisher: Macroeconomics
15. Ott. and Yoo : Macroeconomics
16. Schultz, C. National Income Analysis.
17. Laidler, D.F.W. : The Demand of Money : Theories and Evidence.
18. Maconnels and Gupta: Introduction to Macroeconomics.
19. Chakaravarty committee Report.
20. Beare, John B. : Macroeconomics - Cycles, Growth and Policy in a Monetary Economy.

21. Edgmand, M.R. : Macroeconomics - Theory Policy, II Ed. (3F).
22. Gibson and kaufman: Monetary Economics - Reading on Current Issue.
23. Makinen, G.E. Money, The Price Level and Interest Rates (PHI)
24. Williams and Huffangle : Macroeconomic Theory: Selected Readings.
25. Diuto, E.A. : Macroeconomic Theory.
26. Gupta G.S. : Macro Economics Theory & Application.
27. Stephen J. Turnovsky: Methods of Macro Economic Dynamics.

**PAPER - III ECONOMIC STATISTICS AND MATHEMATICS**

**3 hrs. duration**

**Max. Marks: 100**

**Unit - I**

Nature and use of statistical analysis in organizing data and testing hypothesis. Simple random sampling. Stratified and multistage sampling. Sampling v/s Census Methods. Frequency distribution and graphs. Arithmetic and Geometric Mean. Mode, Median and Quartile.

**Unit - II**

Measure of dispersion, quartile deviation, Mean deviation and standard deviation. Skew ness, introduction to Binomial and Normal distributions, Correlation and Regression, and elementary introduction to Multiple Linear Regression (Students are not expected to compute Multiple Regression Coefficients but Only to Understand the nature and uses of Regression and its coefficients ).

**Unit - III**

Interpolation - Binomial Expansion, Lagrange's and Newton's methods. Association of attributes (between two attributes only) and the Chi square Test. Index numbers.

**Unit - IV**

Analysis of Time Series, Theory of Probability- Concepts, Classical probability, mathematical derivation, Small sample based t-test. Acquaintance with the following bodies of data and their limitations in India :(1) Agriculture : Area, Yield and Prices of Crops. (2) Industry: Annual Survey of Industry (3) Current Population Census (4) Index numbers of Prices (5) National Income: methods of Estimation in India- Concepts, Rules.

**Unit - V**

Functions and curves in economic theory including lines, parabola and hyperbola as used in economics (main properties only). Differentiation and integration of functions of single variable. (Students are not expected to know the proof of relevant theorems but only to perform operations on simple functions).

Partial derivatives of simple functions of two variable. Maxima and Minima of functions of one variable (without constraints).

Addition, subtraction, multiplication of matrices and inverse of matrices. Crammer's rule, Determinants.

**Books Recommended:**

1. Croxton, Cowden & Klien : Applied General Statistics.
2. R.G.D. Allen Mathematical Analysis for Economics (Relevant parts of chapters 5,6, 7 and 18)
3. Alpha C. Chiang: Fundamental Methods of Mathematical Economics.
4. S.P. Gupta: Statistical Methods.
5. Mehta, B.C. and G.M.K. Madani: Mathematics for economists.
6. National Accounts Statistics: Sources and Methodology, CSO, Latest
7. लक्ष्मीनारायण नाथूराम का – अर्थशास्त्र में गणित के प्रयोग
8. कैलाशनाथ नागर – सांख्यिकी के मूल तत्व
9. Grobner and Shannon: Business Statistics - A Decision Making Approach
10. Daniel, W.W. and James, C. Terrel: Business Statistics.
11. Walker, H.M. and Joseph Lev. Statistical Inference.
12. Ranga Gupta Goyal etc. : Statistics.
13. डी.सी. गोखरू – अर्थशास्त्रीय गणित, नवकार प्रकाशन, अजमेर

**PAPER - IV PUBLIC FINANCE**

**3 hrs. duration**

**Max. Marks: 100**

**Unit – I**

Nature and scope of Public Finance, Role of Government in the economy and scope of fiscal action. Optimal budgeting. Theory of public expenditure on social goods. Effects of public expenditure on production and distribution. Economic and functional classifications of government budget current Rail Budget and General Budget Major trends in public expenditure in India (Growth and composition).

**Unit – II**

Public Revenue - Taxation - Canons of Taxation, Justice in Taxation, equi-absolute equi-proportional and equi-marginal sacrifice principle. The incidence of taxation under Monopoly and Perfect competition. Effects of commodity taxation on production via relative price and resource allocation. Effect of direct taxation on production via labour supply and saving rate. Effects of direct taxation on distribution of income and wealth. Measurement of the degree of progression in taxes. Overall progressiveness of the whole tax system.

**Unit – III**

Salient features of the Indian tax system. Major taxes, main trends in the revenues of the Central and State Governments in India. Major changes in the tax structure of a developing economy with special reference to India. Non-tax revenues. Profits from Public Enterprises.

**Unit – IV**

Theory of public debt. Economic effects of large public debt. Loans and savings as source of finance for development Internal and external public debt of India. Theory of Federal Finance. Financial relations between the central and state Governments in India. Major criteria for allocation of central transfers in the Report of the Finance Commission. N.D.C.



formula for Plan Allocation, Main recommendations of latest Finance Commission.

### Unit – V

Fiscal policy for developing economies: Arguments and prospects for resource mobilization by direct and indirect taxation. Borrowing as means of financing. Recent fiscal policy of India. Salient feature of State Finance in Rajasthan. Growth and distribution of revenue and expenditure under major economic heads in the State Budgets.

#### Books Recommended:

1. Musgrave, R.A. : The Theory of Public Finance, 1959.
2. Musgrave, R.A. & P. Musgrave: Public finance in Theory & Practice.
3. Gandhi, V.P. : Some Aspects of India's Tax Structure, Vora & Co., Practice.
4. James, Ctt : Taxation and Economic Development in India, New York, 1969.
5. Bird and Old man: readings on Taxation in Developing Countries, 1964.
6. Bhargava, R.N. India Public Finance.
7. Due, J.F. : Government finance and Fridlander.
8. Prem Prakash Sharma: Principle of Public Finance, Hindi Granth Academy, Jaipur (Hindi)
9. Ganguly, S. : Public Finance.
10. Tilak Narain Hajela : Principle of Public Finance (Hindi)
11. Bhatia, H.L. : Public Finance.
12. U.N.: A Manual for Economic and Fictional Classification of Government Transactions, U.N. New York, 1958.
13. Govt. of India : Reports of Finance Commissions.
14. Laxminarain Nathuramka : Taxation (Hindi)
15. Report of the Committee on Indirect Taxes (Jha Committee), 1978
16. Govt. of India : Long Term Fiscal Policy, December, 1985.
17. CMIE: Various Issues of its Publication.
18. Diwedi, D.N. : Readings in Indian Public Finance.
19. Gandhi, V.P. Some Aspects of India's Tax Structure.
20. Houghton, R.W. : Public Finance: Selected Readings.
21. Peacock, A. and G.K. Shaw: Fiscal Policy and the Employment Problems in Less Developed Countries.
22. Lekhi R.K. : Public Finance.
23. B.P. Tyagi : Public Finance.

### M.A. FINAL ECONOMICS EXAMINATION - 2017 PAPER -V DEVELOPMENTAL ECONOMICS AND INDIAN PLANNING

3 hrs. duration

Max. Marks: 100

### Unit – I

Economic growth, economic development and sustainable development. Major Growth factors \_ Factor inputs, factor productivity and import

substitution, Denisons's Estimates. Human capital formation and the role of education. The role of information technology in development.

### **Unit – II**

Growth models: Classical Ricardo, Marx, Neo-classical (Harrod, Domar and Solow)

### **Unit – III**

Balanced v/s unbalanced growth. Dual economy models. Planning model: Mahalanoibis Input-Output model. Two gap model. Planning: Objectives, resource constraints - financial resources and saving rate.

### **Unit – IV**

Foreign Exchange balance of payments. Plan formulation techniques-capital output ratios, projection of demand, input output coefficients, material balances. Project selection techniques, Cost-benefit analysis-appraisal criteria accounting prices.

### **Unit – V**

Planning process and plan implementation with reference to India. Plan Allocation to States, Gadgil Formula. Instruments for Plan implementation in a mixed economy. Indian Planning and Performance of the Indian economy since 1951. Role of National Institution for Transforming India (NITI) in present scenario. Agricultural, Industrial and aggregate income growth rates. Saving rate and capital formation. Poverty and Inequality, Unemployment in India, Planning and Problems of development in Rajasthan

### **Books Recommended:**

1. Lewis, W.A : Development Planning.
2. Meier, G. : Leading Issues in Economic Development.
3. Yotopulos, P.A and J.B. Nugent: Economics of Development.
4. Kuznets, S. : Modern Economic Growth.
5. Chenery and Syrquin : Patterns of Development.
6. Edward, F. Denison: Sources of Growth in U.S. Economy.
7. Sen, AK. : Growth Economics.
8. Das, Gupta and Pearce: Cost Benefit Analysis.
9. P. Bardhan and T.N. Srinivasan: Poverty and Income Distribution in India.
10. Bhagwati and Desai: Indian Planning for Industrialisation.
11. Monten S. Ahluwalia: Re-distribution with Growth.
12. Charan D. Wadhwa (Ed.) : Indian Economic Problems.
13. Eicher C. and L.W. Win. : The Role of Agriculture in Economic Development.
14. Ghatak, S.: An Introduction to' Development Economics.
15. Chakravarty, S, : Alternative Approaches to a Theory of Economics Growth.
16. Adelman, I. : Theories of Economic Growth and Development.
17. Todaro, M.P. : Economics for a Developing World.
18. Thirlwall, A.P. : Growth and Development.
19. Chenery, H.B. : Redistribution with Growth.

20. Jones, H.G. : An Introduction to the Modern Theories of Economic Growth.
21. Five Year Plans (I to latest)
22. Annual and Special Numbers of the Economic and Political Weekly.
23. Indian Economic Journal.
24. Five Year Plans of Rajasthan.
25. Jhingran M.L. : Development and Indian Planning.

**PAPER – VI - INTERNATIONAL ECONOMICS**

**3 hrs. duration**

**Max. Marks: 100**

**Unit – I**

The Theory of Free Trade, Comparative advantage theory: Ricardo, Haberler and Heckscher- Ohlin, Factor-Price equalization. Effects of growth on production, consumption and terms of trade. Empirical verification of trade models.

**Unit – II**

New theories about determinations of trade in human capital, product cycle, and influence of technology.

Reciprocal demand and offer curves. General equilibrium of production, consumption and trade, terms of trade and gains from trade. Reasons for rejection of free trade infant industry, market distortions, external economies and balance of payment arguments.

**Unit – III**

Trade restrictions: tariff, economic integration and concept of custom union Trade problems of developing countries-commodity price, non-tariff barriers to trade, technology transfer. Regional economic co-operation among developing countries. Indian trade policy and problems.

**Unit – IV**

Balance of payments. Determination of exchange rate. fixed and flexible exchange rates. Balance of payments and national income. Multiplier and backwash effects. Price effects of exchange rate changes-elasticity approach and absorption approach. Exchange control in India.

**Unit – V**

International trade institutions, GATT, WTO and UNCTAD.

Capital movements-short term and long term. Eurocurrency markets Trans-national corporations in transfer of capital and technology. Role of World Bank.

**Book Recommended:**

1. Chacoliades, M. : International Trade: Theory and Policy.
2. Kindleberger : International Economics. (5th Ed.)
3. B. Sodersten : International Economics.
4. P.T. Ellsworth and C.J. Clark: International Economics (5th Ed.)
5. Bhagwati. J. (ed.) International Economics (Penguin)
6. Grubel : International Economics.
7. Vaish and Sudama Singh: International Economics.
8. Kundu and Ray: International Economics.
9. Salvatore, D. : International Economics

10. H.G. Mannur: International Economics - Theory and Policy Issues (Vikas)
11. Salvatore, D. : theory and Practice of International Economics
12. Schum's Outline Series: International Economics.
13. AEA: Readings in the Theory of international Trades.
14. K.D. Swami: International Economics
15. Barla Aggarwal : International Economics
16. Jhingan M.L. International Economics.

**PAPER - VII : COMPREHENSIVE ECONOMICS**

**3 hrs. duration**

**Max. Marks: 100**

There will be two parts of the paper. Each part will be of 50 marks. Part first will cover theory portion of all compulsory papers of M.A. and part second will cover Indian Economics and Current International Economic issues.

Questions in each part will be set in the following pattern.

- (a) 14 Questions - Objective type of one mark each.
- (b) 12 Questions - Short answers (not more than 50 words) of two marks each.
- (c) Three short essay type questions (not more than 150 words) of 4 marks each.

**OPTIONAL PAPERS**

Two Papers from anyone group

Group A - Agriculture Economics

**PAPER - VIII AGRICULTURAL THEORY AND PRACTICE**

**3 hrs, duration**

**Max. Marks: 100**

**Unit – I**

Nature and scope of agricultural economics, Inter-relationship between agriculture and industry in economic development. Stages of agricultural development/Lewis model and its extension by Rains and Rei. Production Economics, Objective functions and decision rules.

**Unit – II**

Agriculture production function analysis. Scale of farming. Laws of returns with examples from Indian data. Marginal productivity and optimum combination of inputs. Optimum allocation of land between crops with examples from Indian studies. Optimum size in agriculture. Determination of Rent. Agriculture credit, criteria for fixing farmer's credit worthiness.

**Unit – III**

Price analysis and marketing in economic development. Type of markets (primary and secondary) and price determination. Forward markets. Income and price elasticities. Marketed surplus, seasonal and cyclical movement in prices. Supply response to variation in agriculture price.

**Unit – IV**

State and Agriculture. Need for and grade of state-Intervention. The role of the state in the agricultural development of Japan, USE and China (a comparative study is expected).

**Unit – V**

Agricultural taxation and economic development with emphasis on the Japanese and Taiwanese agricultural tax policies, Lessons for India (Students are expected to be familiar with relevant theory, Indian experience and specified international comparison).

**Books Recommended:**

1. Mellor John W. : The Economics of Agricultural Development.
2. Eicher, C. and L. Witt. : Agriculture in Economic Development.
3. Meir, C. : Leading Issues in Economic Development.
4. Schultz, T.W. Economic Organization of Agriculture.
5. ICSSR: Survey of Research in Economics, Vol. 3
6. Parmit Chaudhari : Reading in Indian Agriculture.
7. Bhaduri, A. : The Economics Structure of Backward Development.
8. नंदलाल अग्रवाल – कृषि अर्थशास्त्र
9. Eric Tnorback : The Role of Agriculture in Economic Development.
10. Lewis, W.A. : Economic Development with Unlimited Supplies of La,5br.
11. Hanumantha Rao., C.H. : Agricultural Production functions. Costs. and Returns in India,
12. Thamarajakshi, T. : Agriculture Industry Relations in India.
13. Heady, E.O. : Economics of Agriculture Production and Resource Use (PHI) (Relevant Chapters)
14. Heady, E.O. and Hensen: Farm Management.
15. Southworth, S.N. and Bruce F. Johnston: Agricultural Development and Economic Growth.
16. Coben: Economics of Agriculture.
17. Mury, W.G. and Aaron G. Nelson: Agriculture Finance.
18. Kohli, R.L. Marketing of Agricultural Products.
19. Shah, C.R. Some Aspects of Agricultural Economics - A Trend Report of Indian Council of Social Science.
20. Gustav Tanis : The Financing of Japanese Economic Development, Paper in "The Economic History Review" April, 1959.
21. Wald, H.P. : Taxation of Agricultural Lands in Underdeveloped Areas.
22. Rudra, A : Indian Agricultural Economics: Myths and Realities,
23. Dasgupta, B. : The New Agricultural Technology in India.

**PAPER - IX AGRICULTURAL DEVELOPMENT  
AND CO-OPERATION IN INDIA.**

**3 hrs. duration****Max. Marks: 100****Unit – I**

Trends in agricultural production and productivity in India and in Rajasthan since 1961. Determination of output and input progress in India and in Rajasthan since 1961. Institutional changes in Indian agriculture. Land Reforms, their progress and critical evaluation in the agricultural

development in India. Integrated Rural Development Programme, Community Development Panchayati Raj and Extension Services.

### **Unit – II**

Rural-urban migration in India and the problem of agricultural unemployment and under employment. Co-operation in relation to economic development, Origin of the co-operation movement in the U.K. Germany, Italy and Scandinavian countries (only origin of the co-operative movement in these countries should be studied and not the later development).

### **Unit – III**

Philosophy and principles of co-operation, comparison between co-operation, capitalism and socialism, co-operation as an answer to the problem of less developed countries. Role of co-operation in agricultural production credit and marketing in Japan, Israel and Taiwan.

### **Unit – IV**

Co-operative movement in India. Evaluation of co-operative movement. Rural credit survey:

State partnership and recent developments. Present position and evaluation of the movement in the supply of critical inputs.

### **Unit – V**

Credit marketing and production in agriculture, consumer and housing co-operatives in India (special emphasis to be given to the reports of P.E.O. and Planning Commission and different committees on the working of co-operatives in India). Reserve Bank of India and the co-operative movement Co-operative Movement in Rajasthan since 1961 and its critical evaluation.

### **Books Recommended:**

1. Five Year Plans of India (I to X)
2. Shand, R.T. : Agricultural Development in Asia, chapter 3.
3. Economic Survey of Indian Agriculture (latest)
4. Shah, C.H. (ed.) : Agricultural Development in India.
5. Hanumantha Rao., C.H. : Technological Change and Distribution of Gains in Indian Agriculture.
6. Current Five Year Plan of Rajasthan.
7. Dharam Narain : Growth of Productivity in Indian Agriculture, V.A.I. No. I Jan-March, 1977.
8. Bhardwaj, K. : Production Conditions in Indian Agriculture.
9. Nikan Rath : A Note on Agriculture Production in India during 1955-78, U.A.C. April/June, 1980.
10. Vidya Sagar : Agricultural Growth in Rajasthan 1952-77, Rajasthan Economic Journal, Vol. V No.1.
11. Swaminathan, M.S. (ed.) : Performance and Potential of Indian Agriculture.
12. Khusro, AM. (ed.) : Readings in Agricultural Development.

**Books Recommended for Co-operation and Co-operative Movements:**

13. Kulkarni, S.R. : The Theory and Practice of Co-operation, Vol 1, Chapter 1-4 and Chapter 6.
14. International Co-operative Alliance (New Delhi) : The Role of Co-operative in Social and Economic Development.
15. Bogardus, E.S. : Principles of co-operation, pp. 1-45
16. Hough, E.N. : Co-operative Movement in India (latest edition)
17. Mohinder Singh: Co-operatives in Asia (1970) (On Israel, Japan, Taiwan and India).
18. P.C. Jain: Co-operation (Hindi)

**Group -B : Industrial Economics**

**PAPER - VIII ECONOMICS OF MODERN INDUSTRIES.**

**Unit – I**

Nature and scope of Industrial Economics. The theory of the industrial firm. Profit maximization versus other objectives of the industrial firm. Economies of scale of plant and the firm.

**Unit – II**

Industrial Capital budgeting and financing. Economics of Industry at the Aggregate level.

**Unit – III**

Concepts of Productivity and Cost - Their measurement, Reasons for productivity and cost differences between firms, industries and reasons.

**Unit – IV**

Theory of location of industries; Meaning and Measurement of location, industrial concentration and policy towards industrial concentration.

**Unit – V**

Introduction to the calculation and use of industrial input-output system Inter Dependence between the consumer and capital goods industries.

**Required Books:**

1. Robinson, E.A.G. : Structure of Competitive Industry (EH).
2. Basu, 1.8. : Industrial Organization.
3. Archibold, G.C. (ed.) : The Theory of Firm : Selected Readings.
4. Basil S. Yamey (ed,) : Economics of Industrial Structure: Selected Readings.
5. Hawkins, C.J. and Pearce, D.,W. : Capital Investment Appraisal, 1971.
6. Kuchai, S.C. : Financial Management: An Analytical and Conceptual Approach, 1974, Chap. 17.
7. Singer, E.M. Antitrust Economics, Chaps 3, 8 and 10.
8. Leftwitch, R.N. : The Price System and Resources Allocation.
9. Kuchhai : Industrial Economy of India.
10. Bain, J.S.. : Industrial Organization, II ed. 1958.
11. Maschlup, F. : Theories of firm: marginalist, Behavioral, Managerial, American Economic Review, March 1967, Reprinted

- in Readings in the Economics of Industrial Organisation D. Meedham (ed.)
12. Mehta, M.M. Measurement of Industrial Productivity.
  13. Walter, Israd :Methods of Regional Analysis - An Introduction to Regional Science.
  14. John, W. : Kendrick : Productivity Trends in the United States, 1961, Introduction and Chap. I.
  15. Soloman, F. : A Primer on Productivity.
  16. Walter, Lsrad : Methods of Regional Analysis, Chap. 6 and 7, Perot. II
  17. Utton, M.N. : Industrial Concentration, 1970.
  18. Chenery, H. and Clark, P.: Inter Industry Economics, Chap.1-2.
  19. Sen, A.K. : choice of Techniques, An Aspect of the Theory of Planned Economic Development, III ed., 1968.
  20. Sinha and Sawhney : Wages and Productivity in Selected Indian of Industries, 1970, Chap. 1-3
  21. The Boot and Lock: Operations Research and quantitative Economics, Chap. 21. Input output analysis, pp. 53-72
  22. Car Keeyesen and Tumet D.F. : Anti Trust Policy, 1959.
  23. Theory of Firm : Selected Reading, G.C. Archibold, (ed.) 1971

### **PAPER – IX : INDIAN INDUSTRY**

#### **Unit – I**

Industrial growth in India since independence. Rate of industrial investment and output, Structure of industrial growth: Rates and Pattern of Growth. Industrial Planning in India, Policies of self-reliance, import substitution and foreign collaboration.

#### **Unit - II**

Industrial Policy: Evolution of Industrial and Licensing Policy, Its critical assessment. Large scale and small scale industries in private sector with particular reference to financing.

#### **Unit – III**

Regional distribution and industrial sickness, construction of economic power: MRTP Act, MNC's and their impact on Indian Economy, Swadeshi way of industrialization.

#### **Unit – IV**

Public sector industries: Growth, Structure, Problems of Public sector, Management, Pricing and overall efficiency.

#### **Unit – IV**

Industrial Progress in Rajasthan since 1956, Policy and programmes to promote large and small scale industries, critical assessment of industrial development during plans.

#### **Required Books:**

1. Malendaum, W. : Prospects for Indian Development.
2. Rosen, G. : Industrial Change in India.
3. Medhore, P.B. : The Industrial Growth since 1950- An Assessment.



4. Due, John F. & Frielande : Government Finance, Economies of the Public Sector, 4th ed., Irwin, 1969.
5. Mehta, M.M. : Structure of Indian Industries.
6. Gadgil, D.R. : Industrial Evolution of India.
7. Y.K. Alagh : Regional distribution of industry in Economies and K.K. Subrahmanyam : Economics and Political Weekly, April 10, 1971.
8. Economics and Political Weekly (Special No.1 Articles by Y.K. Alagh, 1971. V.V. Desai and P.B. Medhera) Economic and Political Weekly (Special o. July, 1971)
9. Y.K. Alagh : Industrial Planning, Past Experience and Future targets, Economic and Political Weekly's Issue on Management, Aug. 30.
10. Reserve Bank of India : Foreign Collaboration in Indian Industry (Survey Report), Latest.
11. Government of India: Report of the industrial licensing policy, Enquiry Committee (Dutt Committee), July 1969.
12. Government of India : Industrial Planning and Licencing Policy (Final Report R.K. Hazari, 1967. Role of Small Enterprises in India Economics Department).
13. Hanson, A.H. : A.H. : Public Enterprises and Economic Development.
14. Florence, P. Sargnet : Industry. and the State.
15. Gorwala, A.D. : Report on the Efficient Contact of State Enterprises.
16. Ramnandhan, V.V.: Structure of Public Enterprises in India.
17. Raj K. Nigam (ed.) : Public Sector.
18. VIII Five Year Plan of Rajasthan
19. Government of Rajasthan : Techno-Economic Survey of Rajasthan.
20. NCAER: Perspective Planning of Rajasthan.
21. Government of Rajasthan: Industrialization in Rajasthan.
22. Directorate of Industries and Civil Supplies: Growth Potential and Prospects, Latest.
23. Vadilal Dagli : A Profiles of Indian Industry.
24. Raj Krishna and S.S. Mehta : Productivity Trends in Large Scale Industries.  
Economic and Political Weekly.
25. Handbook of Information on Public Enterprise, Bureau of Public Enterprises, Ministry of Finance, Lokudyag (Ministry of Finance).

### **Group C : Labour Economics**

## **PAPER - VIII TRADE UNIONISM AND INDUSTRIAL RELATIONS**

### **Unit – I**

Theories of Labour Movement, Salient features of Trade Union in General; Functions, Structures and Finances of Trade Union. Salient Features of Trade Union in U.K. and USA.

### **Unit – II**

Detailed study of Trade Union Movement in India; Major trade unions; memberships and their policy in India. Employers organization in India. Functions and Achievements of International Labour Organization; ILO and India. .

### **Unit – III**

Collective Bargaining : Meaning, Scope and Implementation of the Collective Bargaining Process. Institutional and Bargaining Theories. Exploitation of labour. Causes of wage differentials. Measures to encourage collective bargaining in India.

### **Unit – IV**

Problems of Collective Bargaining in India. Industrial dispute : Prevention and Settlement. Negotiation and collective agreements. Conciliation; Mediation, Arbitration, Strike the last resort, Role of Government in Union-Management Relations.; Joint Management Councils, Joint Consultation in Industry.

### **Unit – V**

Prevention and settlement of industrial disputes in India with special attention to grievance procedure; Works Committees, Standing Orders; Workers participation in management in India. A critical study of the working of conciliation of arbitration in India.

#### **Books Recommended:**

1. Paul Sultan: Labour Economics, Henry Holt.
2. Gitlow, A.L. : Labour and Industrial Society.
3. Peling, H. : A History of British Trade Unionism.
4. Sinha, G.P. and Sinha P.R.N. : Industrial Relations and Labour Legislation, Oxford RH.
5. Pant, S.C. : Indian Labour Problems.
6. Punekar and Nadhuri : Trade Union Leadership in India.
7. Herold Orouch: Trade Union and Politics in India.
8. Millen, H. : The Political Role of Labour in Developing Countries  
Collective Bargaining: A Workers Education Manual (ILO)
9. Flanders, A (ed.) : Collective Bargaining.
10. Johari, C.K. : Unionism in a developing economy.
11. Yoder, D. and Heneman : Labour Economics and Industrial Relations, South Western Publishing CO.

### **PAPER - IX WAGES AND SOCIAL SECURITY**

#### **Unit – I**

Labour Market : Characteristics of Labour Market : Wage Theories; Marginal Productivity, Demand and Supply and Collective Bargaining. Wage Payment: Methods of wages, payment, Incentive wage payment, system of wages payment in India. Exploitation of Labour, Causes of wages differentials, economy of high wages.

#### **Unit – II**

Wages of Industrial and agricultural workers in India. Standard of living of workers in India, Wage Policy. Employment Service Organizations: Organization Functions and Achievements of Employment Services.

### **Unit – III**

Organization, Functions and Achievements of Employment Service, Organization in UK and USA (in general) Methods of labour recruitment in India, National Employment Service Organization in India. Man Power Planning in India.

### **Unit – IV**

Housing of Labour: Problems and Policy in India.

Social Security: Social Security in the UK. USA and India (in general)

### **Unit – V**

Factory Legislation and Labour Welfare: Main features of present legislation in India.

Labour Welfare in India: Policy and Measures.

### **Books Recommended:**

1. Carter, AM. : Theory of Wages and Employment.
2. Gitlow, AL. : Labour and Industrial Society.
3. Singh, V.B. (ed.) : Industrial Labour of India.
4. Bloom and Northrup: Economics of Labour Relations.
5. Sindha, M.R. (ed.) : The Economics of Manpower Planning.
6. Nigam, S.B.L. State Regulation of Minimum Wages.
7. Polkar, S.A : Problems of Wage Policy for Economic Development.
8. Dobb, M. : Wages (E and H).
9. Johari, C.K. (ed.) : Issue in Indian Labour Policy.
10. Gilbert, B. : The Evaluation of National Insurance in Great Britain.

### **Group D : Banking Economics**

### **PAPER - VIII THEORY OF BANKING AND FINANCIAL INSTITUTIONS**

**3 hrs. duration**

**Max. Marks: 100**

### **Unit – I**

The Financial system, meaning, structure and importance. Indicators of financial development. Fundamental banking principles. Principles of Assets and Liability Management.

### **Unit – II**

Structure and Analysis of a specimen balance sheet of commercial bank. Structure of commercial banks. Unit, Branch, Mixed and consortium banking. Economics of deposit creation.

### **Unit – III**

Inter-relationship among money supply, output, prices and national income. Money supply determinants: Money Multiplier and High Powered Money. Role of Central Bank in Developed and Developing Countries Techniques and problems of Monetary Management.

### **Unit – IV**

Monetary Policy in Developing countries. Choosing between a money supply and interest rate monetary policy. Money and capital market in developed and developing economics. International financial markets : features, financial instruments. Working of Landon Money Market, New York Money Market.

### **Unit – V**

Euro currency and Asian Dollar Market. Rate of Interest, Security Prices and Yields. Level and structure of interest rates. Regional Financial Institutions -Objectives, Achievements and Problems of Asian Development and Inter-American Development Bank. The role of IMF and World Bank in developing countries.

#### **Books Recommended:**

1. S.B. Gupta: Monetary Economics, Oxford.
2. R.S. Sayers: Modern Banking.
3. L.V. Chandler: The Monetary Financial System.
4. A.K. Basu : Fundamentals of Banking Theory and Practice.
5. P.N. Reddy and H.R. Appannaiah: Banking Theory and Practice
6. Paul R.R. : Monetary Economics.
7. Jhingon M.L. : Monetary Economics.

#### **Books for Reference:**

1. Annual Report of IMF : World Bank, Asian Development Bank, African Development Bank, and inter-America Development Bank.
2. M.C. Vaish : Modern Banking
3. Eugene, A. Diulio : Money & Banking.
4. Auembeimer and Ekelund : The Essentials of Money and Banking.
5. Vaish and Sudama Singh: International Economics.

### **PAPER - IX INDIAN BANKING SYSTEM**

**3 hrs. duration**

**Max. Marks: 100**

#### **Unit – I**

Indian Banking System as on the eve of Bank Nationalization. Structure and Development of commercial Banking in India Since 1969. Branch Expansion Programme and Policy. Deposit Mobilisation and sectoral allocation of Bank credit.

#### **Unit – II**

Concept of social and mass banking: Priority sector advances and advances to neglected sections. Diversification of banking business. Productivity of Banking Sector. Regional disparities in commercial banking development. Internationalization of Indian Banking - Deregulation, Liberalization, competition and Modern Technology. Problems and Challenges of Commercial Banks of India.

#### **Unit – III**

Financial Sector Reforms in India. Human Resource Development in Banks - Present Status Rural Banking - An overview of the progress of main credit co-operative institutions. Regional Rural Banks and its importance in changing environment. Multi-Agency Approach in Rural Financing.

#### **Unit – IV**

NABARD, Structure of Development Banks in India. Overall Achievements and shortcomings of term lending with special reference to IFCI, IDBI,

UTI and LIC. Money and capital markets in India. Main features. Instruments and recent trends.

### **Unit – V**

RBI's monetary policy - Its objectives and efficiency in India.  
Impact of RBI's Monetary Policy on Economic Growth and Stability.  
Overall Review of the present regulatory and supervisory system and need for its strengthening in future Banking in Rajasthan.

#### **Books for References:**

1. S.B. Gupta: Monetary Economics.
2. S.G. Panandiker : Banking in India.
3. S.K. Muranjan: Modern Banking in India.
4. K.N. Raj: The Monetary Policy of RBI.
5. RBI: Narsimham Committee Report.
6. RBI: Report on Trend and Progress of Banking in India (Latest)
7. RBI: Report of Currency & Finance (Latest)
8. RBI : Functions and Working.
9. RBI : Monthly Bulletin.
10. Journal of Indian Institute of Bankers.
11. SBI Monthly Review.
12. The Banker, New Delhi.
13. Gazetteer of India, Rajasthan State, Vol 3, pp.303-431
14. Paul R.R. : Monetary Economics.
15. Jhingan M.L. : Monetary Economics.

### **Group E : Econometrics**

#### **PAPER - VIII MATHEMATICAL ECONOMICS**

**3 hrs. duration**

**Max. Marks: 100**

#### **Unit - I**

Theory of demand. the derivation of Slutsky equation for two commodity and commodity budgets. Elasticity relations in demand theory. Linear expenditure system.

#### **Unit - II**

Production function : Leontief function, Cobb Douglas function, C.E.S. function.

Elasticity of substitution. Derivation of cost functions. Supply function and factory demand.

#### **Unit - III**

Cobweb and other simple models in the dynamic equilibrium of a single sector. The use of single sector models in the theory of taxation. Mathematical representation of supply of money, demand for money, export and imports. The basic multiplier, accelerator models of Hicks and Samuelson

#### **Unit - IV**

Simple foreign trade multiplier models. Harris-Todaro model of migration and unemployment. John Robinson's model of capital accumulation. Growth Models - Harrod-Domar, Kaldor, Solow, Meade's Neo-classical model of economic growth.

### Unit - V

Introductory input and output analysis. Introductory, linear programming—graphic, simplex and duality problems.

Theorem. Introduction to non-linear programming.

Mathematics of project appraisal portfolio optimization. Introductory Game Theory.

#### **Books Recommends :**

1. Henderson, J.M. and R.E. Quant :Micro Economic Theory. Chapters 2,3 and 4.
2. Lancasters, K.J. : mathematical Economics, Chapter 6.
3. Hicks, I.R. :Capital and Growth, Chapter 12.
4. Allen, R.G.D. : Macroeconomic Theory, Chapters 6, 7, 11, 12, 14 and 17.
5. Allen, R.G.D. Mathematical Economics, Chapter 1.
6. Stone, R., : Mathematics in the Social Science, Chapter 7.
7. Gass : Linear Programming Chapter 5 and 6.
8. Heady, E.O. : Agricultural Supply Functions, Chapter 1.
9. Evans, M.K. : Macro Economic Activity, Chapter 13. 10. Taro Yamne : Mathematics for Economists.
11. B.C. Mehta: Mathematical Economics: Micro Economic Models.
12. Hicks, I.R. : Theory of Wages; Mathematical, Micro Economic Models.
13. Kindleberg, C.P. : International Economics, Appendices.
14. M.L. Ithangan : The Economics of Development and Planning.
15. G.M.K. Madhani : Mathematical Economics.
16. Introduction to Mathematical Economics: Schaum's outline series.
17. A.C. Chiang: Fundamental Methods of Mathematical Economics.
18. Todaro & Stephen C. Smith: Economic Development.

### **PAPER - IX THEORY OF ECONOMETRICS AND ITS APPLICATIONS**

**3hrs. duration**

**Max. Marks: '100**

#### **Unit - I**

Single equation regression model. The theory of classical least squares, Properties of regression coefficient in the least square regression. Generalized least square. Maximum likelihood estimates of the regression parameters. Multiple regression analysis.

#### **Unit - II**

Illustration of estimated demand. Supply and production functions from Indian data. Durbin Watson (DW) test for testing the independence of disturbances. Treatment of first order Markov Schemel. Violation of important assumptions. Autocorrelation, Heteroscedasticity.

#### **Unit - III**

Aitken's, generalized least squares. Multicollinearity, use of extraneous information.

Specification bias. Dummy variables. Instrumental variables. Lag model. Autocorrelation in Lag models. Adaptive expectation and adjustment models.

#### **Unit - IV**

Simultaneous equation models, Structural equations, reduced form equations. Identification problem, rank and Order conditions. Estimation of structural parameters through indirect least square and two stage least squares.

#### **Unit - V**

Stationarity, unit roots, co-integration-spurious regression, Dickey-Fuller Test, Engle-Granger Test, Random walk Model, Forecasting with ARIMA modeling; Box-Jenkins methodology.

#### **Books Recommended:**

1. Johnson, J : Econometric Methods.
2. Theil, H : Introduction to Econometrics.
3. Intrilligator : Econometrics.
4. Rao and Miller: Applied Econometrics.
5. Madnani, G.M.K. : Introduction to Econometrics - Principles and Application.
6. Johson, Johson & Buse : Economics: Basic and Applied.
7. Studenmund and Cassidy: Using Econometrics: A Practical Guide.
8. Salvatore, D. : Statistics and Econometrics.
9. Gujarati, D.N. : Basic Econometrics.
10. Kmenta J. : Elements of Econometrics.
11. Maddala, G.S. : Econometrics.
12. Koutsoyianis, A. : Theory of Econometrics.

#### **Group F : Economic Thought**

#### **PAPER - VIII HISTORY OF ECONOMIC THOUGHT**

**3 hrs. duration**

**Max. Marks: 100**

#### **Unit - I**

Mercantilism, Physiocrats - Quesnay's Teblleau Economique - Concept of surplusgrowth (theory - Taxation and role of government). Classical school. Adam Smith : The invisible hand doctrine, Wealth of Nation, Laissez faire, labour profits and wages, modern revival of Adam Smith - critiques of Adam Smith.

#### **Unit - II**

Malthus theory of population and theory of under consumption. Picador-Principles of political economy and taxation - distribution theory - differential rents. Differences with Say on Determination of value-modern revival and interrelations (Sraffa).

#### **Unit - III**

Critics of the classical school Sismondi, List and the Nationalist ,school. Restatement of the classical positions, senior and the four postulates. J.S. Mill - Four proposition and capital. Demand and supply bifurcation. The wage fund. Rehabilitation by Caireness stationary state version-non-competing groups.

### **Unit - IV**

Evolution of socialist thought - Utopian, Socialism, Saint Simon Owen Blane Fourier, Proudhon. Scientific Socialist. Karl Marx - Effort at scientific socialism organic composition of capital. Breakdown of capitalism- Reserve army of labour - critiques of Marx. Modern revival of Marx in Economics.

### **Unit - V**

The German Historical School and the development of Marginalism. The Neo- Classical School Marshall.

Twentieth century economic thought,- main features only the rise of Keynesianism, the rise of Mathematical Economics. Dynamics and Econometrics, Critical evaluation of the development of economic thought.

#### **Books Recommended:**

1. Haney: History of Economic Thought.
2. Eric Rol : History of Economic Thought.
3. Gide and Rist : History of Economic Doctrine.
4. M.C Vaish: History of Economic Thought.

### **PAPER - IX INDIAN ECONOMIC THINKERS**

#### **Unit - I**

Economic ideas of ancient - Indian thinkers - Manu, Shukra and Kaultiya

#### **Unit - II**

Economic Thoughts of Swami Oayanand Saraswati, Dada Bhai Naroji, Mahadev Govind Ranade and Gopal Krishan Gokhale.

#### **Unit - III**

Economic Thinking of R.C. Dutt. Mahatma Gandhi, Vinoba Bhave, M.N. Roy.

#### **Unit – IV**

Economic Ideas of Jawahar Lal Nehru, Deen Dayal Upadhyaya, V.K.R.V. Rao, B.R. Ambedkar.

#### **Unit - V**

Major Economic Research Work of J.K. Mehta, Raj Krishna, Amartya Sen and P.R Brahman.

#### **Books for Reference:**

1. B.L. Gupta: Value and Distribution System in Ancient India.
2. B.N. Ganguli - Indian Economic Thought - A 19th Century Perspective.
3. Kautiya - Arthashashtra.
4. S.S. Kulkarni: Ekatma Arthniti.
5. Mahesh Sharma: Deendayal Upadhyaya - Kartavya Avam Vichar.
6. R.C. Dutt. : Economic History of India Vol. I & II.
7. Narhariji Pareekh : Mahav Arthshashtra.
8. Amartya Sen: Inequality Re-examined.
9. Ramkrishna Arya : Swami Dayanand Ka Arthic Chintan.
10. Vijay Krishna: Writings of Rajkrishna.
11. Indian Economic Journal: Conference Volume 1995.



**GROUP- G: Health and Environmental Economics**  
**PAPER - VIII ECONOMICS OF POPULATION AND HEALTH**

**3 hrs. duration**

**Max. Marks: 100**

**Unit - I**

Definition and scope of population studies. Inter-relationship between population studies and other discipline. Composition and economic structure of population. Basic principles of measurement of population growth. Fertility indicators and determinants. Birth rate, General Fertility Rate, Gross and Net Reproduction Rates, Mortality Rates- Crude and specific rates: life tables, Determinants of Fertility and Mortality.

**Unit - II**

Features of 2001 Census in India and Rajasthan.

Theories of population growth - Ancient Thinking of Population issues. Malthusian theory of population Optimum theory of population. Biological theories: The Theory of Demographic Transition.

**Unit - III**

Impact of Population growth on Economic Development.

Quantitative methods in the management of health services, cost and benefit analysis; Input-Output analysis. Health insurance, Health Planning.

**Unit - IV**

Health system in India, evaluation of health, world health organization, Objective, working and structure. Public expenditure on medical and health by central and state government (Rajasthan). A review of Indian and State Health Policy. Review of family planning - India and Rajasthan.

**Unit - V**

Population and Economic Development. Population and Environment. Release and disposal of waste, sewage and solid waste, transportation, civil amenities, slums etc. Population and growth - causes and consequences of rapid growth of world population.

**Books for References:**

1. Ghosh, B.N. : Population Economics (1993), Deep & Deep Publicatons.
2. Raina, B.L. : Population Policy (1988), B.R. Publishing Corp. Delhi.
3. Ashish : India and Asian Population Perspective.
4. Eox, Peser R. : Demography, Universal Book Stall, New Delhi.
5. Bose Ashish : India and Asian Population Thedology.
6. Tau Chi Asian, Madhavan K. and Krishan P. : Readings in Population Research: Policy Methodology and Perspectives.

**Books for references:**

1. Banerjee, D. : Social and Cultural Foundations of Health Service Systems of India (Inquiry), June, 1975.
2. Banerjee, D. : Poverty, Class and Health Culture in India (1982).
3. Gol (1983) : National Health Policy.

4. ICSSR and Indian Council of Medical Research (1981) Health for All 2000 A.D
5. Madan, T.M. (1900) Doctors and Society: Three Asian Case Studies, Vikas Publishing House, Delhi.
6. Naik, J.P. (1977) : An Alternative system of Health Care Services in India: Some Proposals, ICSSR, Delhi.
7. Fieldstein, M.S. (1967) : Economic Analysis of Health Service Efficiency (North Holland).
8. Klarman, H.E. (1965) : The Economics of Health Columbia University Press. Malebaum, W. (1971) : Progress in Health - What indew of what Progress.
10. Panchmukhi P.R. (1980) : Economics of Health - A Trend Report.
11. Golenson, W. and W. Pyati (1964) : quantity of Labour and Economic Development in Certain Countries.
12. Wesbrod, B.A. (1961) : Economics of Public Health.
13. Krishan Kumar, T. and Rao, K.N. (1987) : Financing of Health Services in India: Prospective and Issues.
14. World Bank (1987) : The Financing of Health Services of Developing Countries: An Agenda for Reform World Bank Policy Studies, Washington.
15. G.W. Barley: Techniques of Population Analysis.
16. D.D. Bogue: Principles of Demography.
17. Coale and Hoover: Population Growth of Economic Development: Low Income Countries.

### **PAPER - IX ENVIRONMENTAL ECONOMICS**

**3 hrs. duration**

**Max. Marks: 100**

#### **Unit - I**

Fundamentals of Environmental Economics - Ecosystems Definition and role of Economics. Scope of Environmental Economics. Basic Theory of Environmental Economics. Environmental Quality as a public good. Environmental problems in developed and developing economies.

#### **Unit - II**

Natural Resources. Economics and conservation of natural resources. Environmental Pollution - Types of pollution. Air Pollution : Atmosphere, types of air pollutants. Sources of air pollution, Effects of air pollution on vegetation agriculture, forest, animal, social and human being. Global consequences of air pollution, Noise, Radiation and Space Pollution.

#### **Unit - III**

Water Pollution. Source of water pollutants, industrial and agriculture pollutants. effects of water pollution agriculture, vegetation, animals and human being. Waste water treatments. Impact and use, Global Polluter, Impact of pesticides and Fertilizers on environment and health. Impact of air, land and water pollution agriculture. Agriculture without pollution.

#### **Unit - IV**

Important concepts and issues in environmental protection - Cost benefit Analysis, the Environmental costs of economic growth. Limits to growth, environmental issue in developed and developed Economies. The concept of Sustainable development.

**Unit - V**

Indian Philosophy of sustainable development Views of Ancient Indian Thinkers, Jain Philosophy, Gandhian Philosophy and Deen Dayal Upadhyay's concept of Ekatma Arthniti. sustainable Development strategies for agriculture, industry, natural resources, deserts energy production and fisheries. Brief study of international organizations in the field of Environment and Development - World Commission of Environment and Development (WCED), World Bank and World Wide Fund (WWF.) Environmental Policy of Govt. of India and Rajasthan.

**Books References :**

1. Karpagam, M.: Environmental Economics, Sterling publishers Pvt. Ltd.
2. Simonis E. Udo : Ecology and Economics Policy.
3. Barbier, Edward B. : Economics: natural Resource Scarcity and Development, Earthscan Publication (1989), London. .
4. Pearce, D.W. : Environmental Economics, Longman.
5. Hamrin, Robert D. : A Renewable Resource Economy, Praeger (1983).
6. Katyal, Timmy and Satake : Environmental Pollution, Anmol Publications, New Delhi.
7. Chand Attar: Environment challenges, UDH Publishers, Delhi.
8. B Aumol, William 1. and Wallace E. Dater: Economics, Environmental Policy And the Quality of Life, Prentice Hall, New Jersey (1971).
9. Seneca, Joseph 1. & Michael K. Trussing: Environmental Economics, Prentice Hall Inc., New Jersey.
10. Downing Paul, B. : Environmental Economics and Policy, Brown and Company, Boston.
11. Robert Dorfman and Neney S. Dorfman: Economics of Environment, W.W. Norton, London 1972.
12. Streeton, Paul: Frontiers of Development Studies, Macmillan (1972).
13. Mahbub UI Haq : The Poverty Curtain, OUP Elhi (1983).
14. John A. Butlin : The Economics of Environmental and Natural Resources.
15. Tisdell, Clem : Sustainable Development : Differing Perspective, Vol. 16, pp. 333-384 (1988).
16. Sekor Singh (ed.) : Environmental Policy in India, Indian institute of Public Administration New Delhi.
17. Nathawat, Shashtri and Vyas : Man, Nature and Environmental Law (1988), RBSA Publisher, Jaipur
18. Wathers Pater: Environment, Impact Assessment: Theory and Practice.
19. Swami Nathan M.S. and Jana S. : Biodiversity Implications for Global Security, M.C. Millan Publishers, New Delhi (1994).

20. Gordon, R. Conway and Juels N. Pretty: Unwelcome Harvest- Agriculture and Pollution. Earth scan Publishers Ltd. London, 1994.
21. Lodha, S.L. and Mahendra Lodha: Economics of Environment.

**Group H : Miscellaneous**  
**PAPAER - VIII SURVEY METHODS**  
**ADVANCE RESERCH TECHNIQUES**

**3 hrs. duration**

**Max. Marks: 100**

**Unit - I**

Sample survey : Principles of sample survey, Stages of a survey, practical problems in planning executions and analysis of survey. Random number tables and their use in simple random and probability proportional to size selection. Expectation, concept of sampling errors and standard errors. Non-sampling errors. Mechanical handling of data coning.

**Unit - II**

Critical study of the sample design and questionnaires of the NS consumer expenditure survey, the Rural Credit Survey and the Annual Survey of Industries. Sampling design : random sampling, with replacement and without replacement

**Unit - III**

Stratified sampling. Two stage sampling, Estimation of mean and standard errors. proportional and optimal and Neyman's allocation. Relative efficiency of WR and WTR, SRS and stratified sampling, systematic sampling, cluster sampling cost functions.

**Unit - IV**

Tests of significance - large sampling test for mean proportions and variance. Small sample test based on t,  $\chi^2$  and F distribution analysis and F distribution analysis of variance-one way and two way classification.

**Unit - V**

Regression analysis with one and two explanatory variables. Multiplicative and additive models, Growth Equations, Estimation of regression parameter and their standard errors.

Concept of multi Co-linearity and autocorrelation. Interpretation of estimated structural equation with all the summary statistics viz. standard errors and the coefficient of determination. The problem of curve fitting. Fitting of linear, exponential and parabolic trend curves.

**Books for References :**

1. Sukhame, P.V. and others: Sampling Theory of Survey with Application.
2. Couchreaane: Sampling Techniques.
3. Murti, M.N. : Sampling Methods.
4. Taro Yamame : Statistics Methods.
5. Des Raj: Sample Design.
6. Rao P. and Miller: Applied Economics.
7. Gupta and Kapoor: fundamentals of Applied Statistics, Vol I and II.
8. C.R. Kothari: Research Methodology.

**PAPER - IX REGIONAL ECONOMICS**

**3 hrs. duration**

**Max. Marks: 100**

**Unit - I**

Regional Economics : Scope and Importance. Regions and their types. Economics of Location, General Factors affecting location. Weber's theory of locations, Sargant Florence, Edgar Hoover, Plunder Green hut and island on industrial location

**Unit - II**

Hotelling Principle. Quotient, coefficient of specialization, coefficient of localization curve, shift and share analysis, Mix and share analysis.

**Unit - III**

Regional Flows: Commodity and service flows versus Monetary flows and capital, input output analysis, Regional Multiplier and Industrial complex analysis.

**Unit - IV**

Special theories of regional growth: Cumulative causation theory of Myrdal growth : Centres and Growth Points. Regional planning concepts, Regional plan Vs. National Plan.

**Unit - V**

Linear Programming Technique, Balanced Regional Development, Regional inequalities in India. Economic Planning in Rajasthan.

**Books Recommended:**

1. Shrivastava, O.S. : Regional Economics Theoretical Issues, Anniol Publications, New Delhi. .
2. Misra, Sundaram and Rao. : Regional Development Planning in India.
3. Mahesh Chand and V.K. Puri : Regional Planning in India, Allied Publishers, 1990

**OR**

**ADVANCED INDIAN ECONOMY**

**3 hrs. duration**

**Max. Marks: 100**

**Unit - I**

Demographic aspects : Population growth, labour force, occupational distribution, poverty, unemployment issues in measurement and policy options. Agriculture : Institutional changes, technological changes, Farm price & policy, Agriculture finance - Progress and emerging trends. Food situation and food policy.

**Unit - II**

Industry : Recent trends in industrial growth. Recent changes in industrial policy and licensing policy, Concentration of economic power in the private sector, MRTP Act, Public Sector industries growth and problems of pricing and management. Role of public financial. Institutions in industrial finance, role of MNCs in developing Indian Industries. Impact of MNCs on Indian economy. Swadeshi views on Indian economic development.

### Unit - III

Foreign Trade : main trends in imports and exports. Foreign trade policy import substitution and export promotion. India's balance of payments position in recent years. GATT agreement relating to trade and its impact on Indian Economy. WTO and India. Monetary and Banking Trends: Problems of Inflation, Black Money Monetary and Credit Policies.

### Unit-IV

Fiscal development : Trends in taxation and public expenditure at the central level. Centre-State financial relations. Resource mobilization for planning role of taxation, Borrowing, Deficit financing and administered prices for plan financing. Long term fiscal policy for India. Indian Planning : Strategy and Objectives. Development Policies, saving and investment rates. Foreign capital. Technology transfer to India.

### Unit - V

The institutional framework of Indian economy and its structural changes during the plan period. Economic growth, during plan period. Recent Economic Reforms in India. National Income : Growth and Composition, Regional distribution, Income in inequalities in India, Concentration ratios, Policy for improving income and wealth distribution in India.

#### **Books Recommended:**

1. A.N. Agarwal: Indian Economy (English & Hindi editions) latest.
2. Rudra Dutt and Sundaraman : Indian Economy.
3. Laxminarain Nathurmka : Indian Economy, College Book House, Jaipur Latest.
4. Sudama Singh: Indian Economy.
5. Mishra and Puri : Indian Economy.
6. Kurien, C.T. (1992) : The Economy An Interpretative Introduction, Sage Publications.
7. Kapila, Uma (ed.) : Indian Economy since Independence, Academic Foundation, New Delhi.
8. Kapilla, Uma (ed.) : Recent Development in Indian Economy. Pt. I, II, III Academic Foundation, New Delhi.
9. Jalan, Bimal (1992) : The Indian Economy, Problem Prospects.
10. K.B.L. Mathur: Management of Indian Economy: Systems and Problems.
11. P.K. Dhar: Indian Economy.
12. Economic Survey: Government of India. (Latest)