

**M.A. (FINAL) ECONOMICS  
EXAMINATION, 2015-16**

**Core Papers**

- Paper V : Indian Economic Policy – 5321  
Paper VI : Economics of Growth and Development – 5322  
Paper VII : International Trade and Finance – 5323  
Paper VIII : Economics of Social Sector and Environment – 5324

**Optional Papers**

Any one of the following:

XA – Industrial Economics – 5325 A

Or

XB – Econometrics – 5325 B

Or

XC – Demography – 5325 C

Or

XD – Computer Application in Economic Analysis – 5325 D

Or

XE – Dissertation – 5327

Paper Code: 5321

## **M.A. (FINAL) ECONOMICS**

### **Compulsory Paper**

#### **Paper – V**

### **INDIAN ECONOMIC POLICY**

#### **Unit I**

Approaches to economic development and its measurement – sustainable development; Role of State, market and other institutions; Indicators of development – PQLI, Human Development Index (HDI), gender development indices. Broad demographic features of Indian population; Rural-urban migration; Urbanization and civic amenities; Poverty and Inequality.

#### **Unit II**

Objectives and strategy of planning; Failures and achievements of Plans; Developing grass-root organizations for development – Panchayats, NGOs and pressure groups. Energy; Social infrastructure – education and health; Issues and Policies in financing infrastructural development: Regional imbalance.

#### **Unit III**

Institutional Structure – land reforms in India; Technological change in agriculture – pricing of agricultural inputs and output; Terms of trade between agriculture and industry; Agricultural finance policy; Agricultural Marketing and Warehousing; Issues in food security – policies for sustainable agriculture. Industrial policy; Privatisation and disinvestment debate; Growth and pattern of industrialisation; Small-scale sector; Exit policy – issues in labour market reforms.

#### **Unit IV**

Fiscal Policy in India – Problems relating to fiscal policy; Fiscal sector reforms in India. Financial sector reforms; Review of monetary policy of RBI; Money and capital markets; Working of SEBI in India.

#### **Unit V**

Structure and direction of foreign trade; Balance of payments; Issues in export-import policy and FEMA; Exchange rate policy; Foreign capital and MNCs in India; Globalisation of Indian economy; W.T.O. and its impact on the different sectors of the economy.

## **BASIC READING LIST:**

- Ahluwalia, I.J. and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- Bardhan, P.K. (9<sup>th</sup> Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy : Inter-State Perspectives, Bookwell, Delhi.
- Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
- Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
- Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep and Deep Publications, New Delhi.
- Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Jain, A.K. (1986), Economic Planning in India, Ashish Publishing House, New Delhi.
- Jalan, B. (1992), The Indian Economy – Problems and Prospects, Viking, New Delhi.
- Jalan, B. (1996), India's Economic Policy – Preparing for the Twenty First Century, Viking, New Delhi.
- Joshi, V. and I.M.D. Little (1999), India: Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.
- Parikh, K.S. (1999), India Development Report – 1999-2000, Oxford University Press, New Delhi.
- Reserve Bank of India, Report on Currency and Finance, (Annual).
- Sendesara, J.C. (1992), Industrial Policy and Planning, 1947-1991 : Tendencies Interpretations and Issues, Sage Publications, New Delhi.
- Sen, R.K. and B. Chatterjee (2001), Indian Economy : Agenda for 21<sup>st</sup> Century (Essays in honour of Prof. P.R. Brahmananda), Deep and Deep Publications, New Delhi.

## **ADDITIONAL READING LIST:**

### **Unit I**

- Haq, M. (1996), Reflections on Human Development, Oxford University Press, New Delhi.
- Thirlwall, A.P. (1994), Growth and Development, ELBS, Macmillan Press, London.
- Todaro, M. (1997), Economic Development in the Third World, Addison-Wesley, England.
- Nations Development Programme, (1997), Human Development Report, Oxford University Press, New Delhi.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Chelliah, Raja J. and R. Sudarshan (1999), Income, Poverty and Beyond: Human Development in India, Social Science Press, New Delhi.
- Dandekar, V.M. (1996), The Indian Economy. 1947-92, Vol. II, Sage Publications, New Delhi.
- Hanumantha Rao, C.H. and H. Linnemann (Eds.) (1996), Economic Reforms and Poverty Alleviation in India, Sage Publications, New Delhi.
- Subramanian, S. (Ed.) (1997), Measurement of Inequality and Poverty, Oxford University Press, Calcutta.
- World Bank (2000), India: Reducing Poverty. Accelerating Economic Development, Oxford University Press, New Delhi.

### **Unit II**

- Byres, T.J. (Ed.) (1998), The Indian Economy : Major Debates Since Independence, Oxford University Press, New Delhi.
- Chakravarty, S. (1987), Development Planning – The Indian Experience, Oxford University Press, New Delhi.
- Chattopadhyay, M., P. Matiti and M. Rakshit (Eds.) (1996), Planning and Economic Policy in India – Evaluation and Lessons for the Future, Sage Publications, New Delhi.

- Government of India, Planning Commission (1999), Ninth Five Year Plan, 1997-2002, Vol. I & II, New Delhi.
- Kabra, K.N. (1997), Development Planning in India, Sage Publications, New Delhi.
- Frederick, H. and A.M. Charles (1970), Education. Manpower and Economic Growth, New Delhi.
- Government of India, Planning Commission (1999), Ninth Five Year Plan, 1997-2002, Vol. II, New Delhi.
- Tilak, J.B.C. (1993), Costs and Financing of Education in India: A Review of Issues. Problems and Prospects (Mimeo), National Institute of Educational Planning and Administration, New Delhi.

### Unit III

- Appu, P.S. (1996), Land Reforms in India, Vikas, New Delhi.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, New Delhi.
- Joshi, P.C. (1975), Land Reforms in India, Allied Publishers Pvt. Ltd., New Delhi.
- Narain, D. (1988), Studies on Indian Agriculture, Oxford University Press, New Delhi.
- Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
- Bhagwati, J.N. and P. Desai (1970), India: Planning for Industrialization, Oxford University Press, London.
- Datta, B. (1978), Economics of Industrialization, The Bookland, Calcutta.
- Mookherjee, D. (Ed.) (1997), Indian Industry: Policies and Performance, Oxford University Press, New Delhi.
- Swamy, D.S. (1994), The Political Economy of Industrialization: From Self-reliance to Globalization, Sage Publications, New Delhi.

#### **Unit IV**

- Bhargava, P.K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi.
- Chelliah, Raja J. (1996), Towards Sustainable Growth – Essays in Fiscal and Financial Sector Reforms in India, Oxford University Press, New Delhi.
- Gupta, S.P. (1998), Post-Reform India: Emerging Trends, Allied Publishers, New Delhi.
- Kumar, A. (1999), The Black Money in India, Penguin, Harmondsworth.
- Lucas, R.E.B. and F. Papanek (Eds.) (1988), The Indian Economy – Recent Development and Future Prospects, Oxford University Press, New Delhi.
- Mundle, S. (1999), Public Finance: Policy Issues for India, Oxford University Press, New Delhi.
- Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
- Machiraju, H.R. (1998), Indian Financial System, Vikas Publishing House Pvt. Ltd., New Delhi.
- Rangaranjan, C. (1998), Indian Economy: Essays on Money and Finance, UBS, New Delhi.
- Reserve Bank of India, Report on Currency and Finance (Annual).

#### **Unit V**

- Debroy, B. (1992), Foreign Trade Policy Chances and Devaluation, B.R. Publishing Corporation, Delhi.
- Martinussen, J. (1988), Transnational Corporations in a Developing Country – The Indian Experience, Sage Publications, New Delhi.
- Mukherjee, N. (1988), India's International Payments Imbalances, Mayur Offset, Calcutta.
- Nayyar, D. (Ed.) (1997), Trade and Industrialisation, Oxford University Press, New Delhi.
- Nayyar, D. (1976), India's Exports and Export Policies in the 1960s, Cambridge University Press, Cambridge.

- Sens, S. (2000), Trade and Dependence: Essays on the Indian Economy, Sage Publications, New Delhi.
- Verma, M.L. (1995), International Trade, Vikas Publishing House Private Ltd., Delhi.
- Basu, K. *et al.* (1995), Capital Investment and Development: Essays in memory of Sukhmoy Chakravarty, Oxford University Press, New Delhi.
- Byres, T.J. (Ed.) (1997), The State, Development Planning and Liberalization in India, Oxford University Press, New Delhi.
- Chelliah, Raja J. and R. Sudarshan (1999), Income Poverty and Beyond: Human Development in India, Social Science Press, New Delhi.
- Dhameeja, N. and K.S. Sastry (1998), Privatisation: Theory and Practice, A.H. Wheeler, New Delhi.
- Dubey, M. (1996), An Unequal Theory: World Trading Order After GATT, New Age International Ltd., Delhi.
- Government of India, Economic Survey (Annual).
- Gupta, S.P. (1998), Post Reform India: Emerging Trends, Allied Publishers, New Delhi.
- Srinivasan, T.N. (Ed.) (2000), Eight Lectures on India's Economic Reforms, Oxford University Press, Oxford.

## **M.A. (FINAL) ECONOMICS**

### **Compulsory Paper**

#### **Paper – VI**

### **ECONOMICS OF GROWTH AND DEVELOPMENT**

#### **Unit I**

Economic growth and development – Factors affecting economic growth: capital, labour and technology, Measuring development and development gap – per capita income, inequality of income, Human development index and other indices of development and quality of life. Classical theory of development – contribution of Adam Smith, Ricardo, Malthus and James Mill, Karl Marx and development of capitalistic economy – theory of social change, surplus value and profit. Crisis in capitalism – Schumpeter and capitalistic development: innovation – role of credit, profit and degeneration of capitalism.

#### **Unit II**

Growth models – Harrod and Domar, instability of equilibrium: Neo Classical growth models – solow and Meade. Mrs. Joan Robinson's growth model : Cambridge criticism of Neo-classical analysis of growth. Technological progress – embodied and disembodied technical progress. Golden rule of accumulation. Stability of equilibrium: Money in economic growth, Endogeneous growth.

Unlimited supply of labour, big push, balanced growth, unbalanced growth, critical minimum effort thesis, low-income equilibrium trap: Dualism – technical, behavioural and social : Ranis and Fei model.

#### **Unit III**

Development and underdevelopment – Perpetuation of underdevelopment. Population problems and growth pattern of population – Theory of demographic transition: Population as limit to growth and as ultimate source – population, poverty and environment.

Human Resource Development – Food security, education, health and nutrition.



## Unit IV

Role of agriculture in economic development; Efficiency and productivity in agriculture, New technology and sustainable agriculture; Globalization and agricultural growth; Rationale and pattern of industrialization in developing countries; The choice of techniques and appropriate technology and employment.

Efficiency of small-scale v/s large-scale production; Terms of trade between agriculture and industry, Infrastructure and its importance.

## Unit V

Need for investment criteria in developing countries – present v/s future, Alternative investment criteria : cost benefit analysis, shadow prices, project evaluation.

External resources – FEI, aid v/s trade, technology inflow; MNCs activity in developing countries; Borrowings – domestic and external; Burden of borrowing. Role of Monetary and fiscal policies in developing countries.

### BASIC READING LIST:

- Adelman, I. (1961), *Theories of Economic Growth and Development*, Stanford University Press, Stanford.
- Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 3, Elsevier, Amsterdam.
- Brown, M. (1966), *On the Theory and Measurement of Technical Change*, Cambridge University Press, Cambridge Mass.
- Chenery, H.B. *et al.* (Eds.) (1974), *Redistribution with Growth*, Oxford University Press, Oxford.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), *Handbook of Development Economics*, Vols. 1&2, Elsevier, Amsterdam.
- Dasgupta, P. (1993), *An Enquiry into Well-being and Destitution*, Clarendon Press, Oxford.
- Ghatak, S. (1986), *An Introduction to Development Economics*, Allen and Unwin, London.
- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), *Economics of Development*, (3<sup>rd</sup> Edition), W.W. Norton, New York.

- Gimmell, N. (1987), *Surveys in Development Economics*, Blackwell, Oxford.
- Higgins, B. (1959), *Economic Development*, W.W. Norton, New York.
- Hogendorn, J. (1996), *Economic Development*, Addison, Wesley, New York.
- Kahkonon, S. and M. Olson (2000), *A New Institutional Approach to Economic Development*, Vistaar.
- Kindleberger, C.P. (1977), *Economic Development*, (3<sup>rd</sup> Edition), McGraw Hill, New York.
- Meier, G.M. (1995), *Leading Issues in Economic Development*, (6<sup>th</sup> Edition), Oxford University Press, New Delhi.
- Myint, Hla (1965), *The Economics of Under developed Countries*, Preager, New York.
- Myint, H. (1971), *Economic Theory and Under developed Countries*, Oxford University Press, New York.
- Todaro, M.P. (1996), (6<sup>th</sup> Edition), *Economic Development*, Longman, London.
- Thirwal, A.P. (1999), (6<sup>th</sup> Edition), *Growth and Development*, Macmillan, U.K.

#### **ADDITIONAL READING LIST**

##### **Unit I & II**

- Barrell, R., G. Mason and M.O. Mahoney (2000), *Productivity, Innovation and Economic Performance*, Cambridge University Press, Cambridge.
- Barrow, R. and X. Sela-1, Martin, *Economic Growth*, McGraw Hill, New York.
- Chakravarti, S. (1982). *Alternative Approaches to the Theory of Economic Growth*, Oxford University Press, New Delhi.
- Hayami, Y. (1997), *Development Economics*, Oxford University Press, New York.
- Meadows, D.H. *et al.* (1972), *The Limits to Growth*, Universe Books, New York.
- Sen, A.K. (Ed.) (1990), *Growth Economics*, Penguin, Harmondsworth.

- Solow, R.M. (2000), *Growth Theory: An Exposition*, Oxford University Press, Oxford.
- Taylor L. (1979), *Macro Models for Developing Countries*, McGraw Hill, New York.
- Therberge, J.D. *et al.* (1968), *Economics of Trade and Development*, John Wiley.

### **Unit II & III**

- Dasgupta, P. (1993), *An-Enquiry into Well-being and Destitution*. Clarendon Press, Oxford.
- Hirsch, A.O. (1958), *The Strategy of Economic Development*, Yale University Press, New York.
- Lewis, W.A. (1955), *The Theory of Economic Growth*, George Allen and Unwin, London.
- Mehrotra, S. and J. Richard (1998), *Development with a Human Face*; Oxford University Press, New Delhi.
- Meier, G.M. and D. Seers (Eds.) (1987), *Pioneers in Development*, Oxford University Press, New York.
- Myrdal, G. (1957), *Economic Theory and Underdeveloped Regions*, Duckworth, London.
- Schumpeter, J.A. (1949), *The Theory of Economic Development*, Harvard University Press, Cambridge, Mass.
- Todaro, M.P. (1971), *Development Planning : Models and Methods*, Oxford University Press, Oxford.
- United Nations (1994), *Human Development Report*, United Nations, New York.
- Campbell, N. and F. Burton (Eds.) (1994), *Japanese Multinationals*, Routledge, New York.
- Dasgupta, P., A.K. Sen and S. Marglin (1972), *Guidelines for Project Evaluation*, UNIDO Vienna.
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- Ranis, G. and Mahmood (1992), *Political Economy for Development*, Blackwell, Cambridge Mass.
- Sen, A. (1992), *Inequality Reexamined*, Oxford University Press, Oxford.
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#### **Unit IV**

- Chakravarti, S. (1987), *Development Planning: The Indian Experience*, Clarendon Press, Oxford.
- Bhagwati, J. and P. Desai (1970), *India: Planning for Industrialization*, Oxford University Press, London.
- Grossman, G. and E. Helpman (1991), *Innovation and Growth in the Global Economy*, MIT Press, Cambridge, Mass.
- Nayar, D. (Ed.) (1994), *Industrial Growth and Stagnation. The Debate in India*, Oxford University Press. New Delhi.
- Todaro, M.P. (1971), *Development Planning: Models and Methods*, Oxford University Press, Oxford.
- Weiss, J. (1988), *Industry in Developing Countries*, Croom Helm, London.
- Grossman, G. and E. Helpman (1991), *Innovation and Growth in the Global Economy*, MIT Press, Cambridge, Mass.
- Hayami, Y. (1997), *Development Economics*, Oxford University Press, New York.
- Hayami, Y. and M. Akoi (Eds.) (1998), *The Institutional Foundations of East Asian Economic Development*, Macmillan, London.

- Killick, T. (1995), IMF Programmes in Developing Countries: Design and Impact, Routledge, London.
- Kuznets, Simon (1971), Economic Growth of Nations, Total Output and Production Structure, Harvard University Press, Cambridge. Mass.
- Little, I.M.D. (1982), Economic Development: Theory and International Relations, Basic Books, New York.
- Mason, M. (1992). American Multinationals and Japan, Harvard University Press.
- Therberge, J.D. (Ed.) (1968), Economics of Trade and Development. John Wiley, New York.

### **Unit V**

- Brahmananda, P.R. and C.N. Vakil (1956), Planning for an Expanding Economy, Vora and Co., Bombay.
- Chakravarti, S. (1987), Development Planning: The Indian Experience, Clarendon Press Oxford.
- Gupta, S.B. (1988), Monetary Economics: Institutions, Theory and Policy, S. Chand and Co., New Delhi.
- Jadhav, N. (1995), Monetary Economics for India, Macmillan, New Delhi.
- Killick, T. (1995), IMF Programmes in Developing Countries: Design and Impact Routledge, London.
- Little, I.M.D. (1982), Economic Development : Theory and International Relations, Basic Books, New York.
- Mason, M. (1992), American Multinationals and Japan, Harvard University Press, Cambridge, Mass.
- Mehrotra, S. and J. Richard (1998), Development with a Human Face, Oxford University Press, New Delhi.
- Therberge, J.D. (Ed.) (1968), Economics of Trade and Development, John Wiley, New York.
- World Bank (1993), East Asian Miracle, World Bank Report, Washington D.C.

- World Bank (1994), Infrastructure and Development, World Bank, Washington D.C.
- United Nations (1994), Human Development Report, United Nations, New York.
- Dasgupta, P., A.K. Sen and S. Marglin (1972), Guidelines for Project Evaluation, UNIDO, Vienna.
- Mishan, E.J. (1975), Cost-Benefit Analysis (2<sup>nd</sup> Edition), Allen and Unwin, London.
- Bhagwati, J. and P. Desai (1970), India: Planning for Industrialization, Oxford University Press, London.
- Brahmananda, P.R. and C.N. Vakil (1956), Planning for an Expanding Economy, Vora and Co., Bombay.
- Chakravarti, S. (1987), Development Planning: The Indian Experience, Clarendon Press, Oxford.
- Mehrotra, S. and J. Richard (1998), Development with a Human Face, Oxford University Press, New Delhi.
- Thirlwal, A.P. (1974), Inflation, Saving and Growth in Developing Economies, Macmillan, London.
- Todaro, M.P. (1971), Development Planning: Models and Methods, Oxford University Press, Oxford.

## **M.A. (FINAL) ECONOMICS**

### **Compulsory Paper**

#### **Paper – VII**

### **INTERNATIONAL TRADE AND FINANCE**

#### **Unit I**

The pure theory of international trade – Theories of Absolute Advantage, Comparative Advantage and Opportunity Costs, Modern Theory of International Trade; Theorem of factor price Equalization, Empirical testing of theory of Absolute Cost and Comparative Cost, Heckscher Ohlin theory of trade. Kravis and Linder theory of trade. The Rybczynski theorem, Stolper – Samuelson Theorem.

#### **Unit II**

Measurement of gains from trade and their distribution; Concepts of terms of trade, their uses and limitations; Trade as an engine of economic growth; Welfare implications – Empirical evidence and policy issues; The Theory of Interventions (Tariffs, Quotas and non-tariff barriers); Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution; Balance of payments on trading partners both in partial and general equilibrium analysis. Nominal, effective and optimum rates of tariffs – their measurement, impact and welfare implications.

#### **Unit III**

Meaning and components of balance of payments; Equilibrium and disequilibrium in the balance of payments; Expenditure-reducing and expenditure-switching policies and direct controls for adjustment; A critical review of the monetary approach to the theory of balance of payments adjustment; Foreign trade multiplier with and without foreign repercussions and determination of national income and output; Relative merits and demerits of fixed and flexible exchange rates in the context of growth and development in developing countries.

#### **Unit IV**

Forms of economic cooperation; Reforms for the emergence of trading blocks at the global level; Static and Dynamic effects of a customs union and free trade areas;

Rationale and economic progress of SAARC/ SAPT A and ASEAN, EU, NAFTA regions; Reform of the International – Monetary System, India and developing countries; Theory of short-term capital movements and East-Asian Crisis and lessons for developing countries; International trade and financial institutions – Functions of GATT/ WTO (TRIPS, TRIMS), UNCTAD, IMF, World Bank – their achievements and failures and impact on India.

### Unit V

Trade problems and trade policies in India during the last five decades; Recent changes in the direction and composition of trade and their implications; Rationale and impact of trade reforms since 1991 on balance of payments, employment and growth. Problems of India's international debt; Working and regulations of MNCs in India; Instruments of export promotion and recent import and export policies and agenda for future.

#### **BASIC READING LIST:**

- Bhagwati, J. (Ed.) (1981), *International Trade, Selected Readings*, Cambridge, University Press, Massachusetts.
- Carbough, R.J. (1999), *International Economics*, International Thompson Publishing, New York.
- Chacholiades, M. (1990), *International Trade: Theory and Policy*, McGraw Hill, Kogakusha, Japan.
- Dana, M.S. (2000), *International Economics: Study, Guide and Work Book*, (5<sup>th</sup> Edition), Routledge Publishers, London.
- Dunn, R.M. and J.H. Mutti (2000), *International Economics*, Routledge, London.
- Kenen, P.B. (1994), *The International Economy*, Cambridge University Press, London.
- Kindleberger, C.P. (1973), *International Economics*, R.D. Irwin, Homewood.
- King, P.G. (1995), *International Economics and International Economic Policy: A Reader*, McGraw Hill International, Singapore.
- Krugman, P.R. and M. Obstfeld (1994), *International Economics: Theory and Policy*, Glenview, Foresman.



- Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J., New York.
- Soderston, Bo (1991), International Economics, The Macmillan Press Ltd., London.
- Mithani, D.M. : International Economics.
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**ADDITIONAL READING LIST:**

**Unit I**

- Bhagwati, J. (Ed.) (1981), International Trade: Selected Readings, Cambridge University Press, Mass.
- Corden, W.M. (1965), Recent Developments in the Theory of International Trade; Princeton University Press, Princeton.
- Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.

**Unit II**

- Aggarwal, M.R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- Barrow, R.J. (1993), Macro Economics, 4<sup>th</sup> Edition, John Wiley, New York.
- Bhagwati, J. (1988), Protectionism, Cambridge University Press, Mass.
- Clement, M.O., R.L. Pfister and K.J. Rothwell (1969), Theoretical Issues in International Economics, Constable Publication, London.
- Corden, W.M. (1974), Trade Policy and Economic Welfare, Clarendon Press, Oxford.
- Goldstein, M. (1998), The Asian Financial Crisis: Causes. Cure and Systematic Implication, Institute for International Economics, Washington, D.C.
- Jackson, J. (1989), The World Trading System, Cambridge University Press, Mass.
- Pomfret, R. (1988), Unequal Trade: The Economic of Discriminatory International Trade Policies, Blackwell Publishers, Oxford.

### Unit III

- Crockett, A. (1982), International Money: Issues and Analysis, The ELBS and Nelson.
- Heller, H. Robert (1968), International Monetary Economics, Prentice Hall, India.
- Linder, S.B. (1961), An Essay on Trade and Transformation, Wiley, New York.
- Niehans, J. (1984), International Monetary Economics, John Hopkins University Press, Baltimore.
- Schwartz, A.J. (1987), Money in Historical Perspective, Chicago University Press, Chicago.
- Yeager, L.B. (1976), International Monetary Relations: Theory, History and Policy, Harper and Row, New York.

### Unit IV

- Aggarwal, M.R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- Brahmananda, P.R. (1982), The IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay.
- Grable, J.O. (1996), International Financial Markets, Prentice Hall, Englewood Cliffs, New York.
- Kenen, P.B. (1995), Economic and Monetary Union in Europe, Cambridge University Press UK.
- Kindleberger, C.P. (1996), A History of Financial Crisis: Manias, Panics and Crashes, (3<sup>rd</sup> Edition), John Wiley and Sons, New York.
- Manmohan Singh (1964), India's Export Trends and the Prospects for Self-sustained Growth, Oxford University Press, New Delhi.
- Mishkin, S.F. (1998), The Economics of Money, Banking and Financial Markets, (5<sup>th</sup> Edition), Harper Colins Publishers, New York.
- Mundell, R. (1968), International Economics, The Macmillan Company Ltd., New York.

- Nayar, D. (1976), *India's Exports and Export Policies in the 1960s*, Cambridge University Press.
- Panchmukhi, V.R., K.M. Raipuria and R. Tandon (1987), *Money and Finance in World Economic Order (RIS)*, Indus Publishing Co., Delhi.
- Panchmukhi, V.R. (1978), *Trade Policies of India – A Quantitative Analysis*, Concept Publishing Company, New Delhi.
- Pomfret, R. (1996), *International Trade: An Introduction to Theory and Policy*, Basil Blackwell, Oxford.
- Soloman, R. (1982), *The International Monetary System 1945-1981*, Harper and Row Publishers, New York.
- Tew, B. (1985), *The Evaluation of the International Monetary System : 1945-85*, Hutchinson.
- Whalley, John (1985), *Trade Liberalization Among Major Trading Areas*, Cambridge University Press, Mass.

#### **Unit V**

- Bhagwati, J. and P. Desai (1970), *India: Planning for Industrialization*, Oxford University.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), *The Development Process of the Indian Economy*, Himalaya Publishing House, Bombay.
- Joshi, V. and I.M.D. Little (1998), *India's Economic Reforms, 1999-2000*, Oxford University Press, New Delhi.
- Patel, S.J. (1995), *Indian Economy Towards the 21<sup>st</sup> Century*, University Press Ltd., India.
- Satyanarayan, B. (1986), *India's Trade with Asia and the Far East Countries*, B.R. Publishing Corp., New Delhi.
- Verma, M.L. (1995), *International Trade*, Vikas Publishing House Pvt. Ltd., Delhi.

## **M.A. (FINAL) ECONOMICS**

### **Compulsory Paper**

#### **Paper – VIII**

### **ECONOMICS OF SOCIAL SECTOR AND ENVIRONMENT**

#### **Unit I**

Pareto optimality and competitive equilibrium; Fundamental theorems of welfare economics; Externalities and market inefficiency – externalities as missing markets; property rights and externalities, non-convexities and externalities; Pareto optimal provision of public goods – Lindahl's equilibrium, preference revelation problem and impure and mixed public goods, common property resources.

#### **Unit II**

Concept of total economic value, Use value; Option values and Non-use values; Valuation methods – Physical linkage methods. Abatement cost method, Behavioural linkage method (Revealed preference, Stated Preference and Subsidies).

Measures for Environmental Externalities – Pigovian taxes and subsidies, Coase's bargaining solution and collective action (Coase's Theorem).

Environmental Accounting – Meaning, need, nature of environmental accounting. Integrated Environmental and Economic Accounting (IEEA) and the measurement of environmentally corrected GDP (Green Accounting).

#### **Unit III**

Theories of optimal use of exhaustible and renewable resources; Environment and development trade off and the concept of sustainable development – need; Mechanism for environmental regulation in India; Environmental laws and their implementation; Policy instruments for controlling water and air pollution and forestry policy.

#### **Unit IV**

Education as an instrument for economic growth; Human capital – Human capital v/s Physical capital, components of human capital; Demand for education – private demand and social demand, Determinants of demand; Cost of Education –

Expenditure on education, private costs and social costs and wastage and stagnation; Benefits of education – Direct and indirect benefits, private and social benefits; Educational planning. Educational financing – Resource mobilization and utilization, pricing and subsidies and effects of educational financing on income distribution; Education and labour market.

### Unit V

Health dimensions of development; Determinants of health – poverty, malnutrition and environmental issues; Economic dimensions of health care – demand and supply of health care; Financing of health care and resource constraints; The concept of human life value; Inequalities in health – class and gender perspectives and its measurements with health indicators, Expenditure on Health Care.

#### **BASIC READING LIST:**

- Baumol, W.J. and W.E. Oates (1988), *The Theory of Environmental Policy*, (2<sup>nd</sup> Edition), Cambridge University Press, Cambridge.
- Berman, P. (Ed.) (1995), *Health Sector Reform in Developing Countries: Making Health Development Sustainable*, Boston: Harvard Series on Population and International Health.
- Blaug, M. (1972), *Introduction to Economics of Education*, Penguin, London.
- Bromely, D.W. (Ed.) (1995): *Handbook of Environmental Economics*, Blackwell, London.
- Cohn, E. and T. Gaske (1989), *Economics of Education*, Pergamon Press, London.
- Fisher, A.C. (1981), *Resource and Environmental Economics*, Cambridge University Press, Cambridge.
- Hanley, N., J.F. Shogren and B. White (1997), *Environmental Economics in Theory and Practice*, Macmillan.
- Hussen, A.M. (1999), *Principles of Environmental Economics*, Routledge, London.
- Jeroen, C.J.M. van den Bergh (1999), *Handbook of Environmental and Resource Economics*, Edward Elgar Publishing Ltd., U.K.

- Klarman, H.E. (1965), *The Economics of Health*, Columbia University Press, New York.
- Kolstad, C.D. (1999), *Environmental Economics*, Oxford University Press, New Delhi.
- Pearce, D.W. and R. Turner (1991), *Economics of Natural Resource Use and Environment*, John Hopkins University Press, Baltimore.
- Perman, R. Ma and J. McGilvary (1996), *Natural Resource and Environmental Economics*, Longman, London.
- Sankar, U. (Ed.) (2001), *Environmental Economics*, Oxford University Press, New Delhi.
- Schultz, T.W. (1971), *Investment in Human Capital*, Free Press, New York.
- Tietenberg, T. (1994), *Environmental Economics and Policy*, Harper Collins, New York.

#### **ADDITIONAL READING LIST:**

##### **Unit I**

- Arrow, K.J. (1970), 'The Organization of Economic Activity: Issues Pertinent to Choice of Market versus Non-market Allocation' in *Public Expenditure and Policy Analysis*, (Ed.), Haveman, R.H. and J. Margolis, Markham, Chicago.
- Crones, R. and T. Sandler (1989), *The Theory of Externalities and Public Goods*, Cambridge University Press, Cambridge.

##### **Unit II**

- Hanley, N. (1997), *Environmental Economics in Theory and Practice*, Macmillan, London.
- Mitchell, R.C. and R.T. Carson (1993), *Using Surveys to Value Public Goods: Resources for the Future*, Washington, D.C.
- Smith, V. Kerry (1996), *Estimating Economic Values for Nature: Methods for Non-market Valuation*, Edward Elgar, Cheltenham, U.K.
- Chopra, K. (1998), *Valuation of Bio-diversity within Protected Areas: Alternative Approaches* Institute of Economic Growth, Delhi.

- Hadker, N. *et al.* (1997), Willing to Pay for Borivili National Park: Evidence from Contingent Valuation, *Ecological Economics*, Vol. 21.
- Markandya, A. and M.N. Murty (2000), *Cleaning the Ganges : Cost-Benefit Analysis of Ganga Action Plan*, Oxford University Press, New Delhi.
- Baland, J.M. and J.P. Plateau (1994), *Haltin Degradation of Natural Resources: Is There a Role for Rural Communities*, Oxford University Press, Oxford.
- Hoel, M. (1997), 'International Coordination of Environmental Policies' In *New Dimensions in The Economic Theory of Environmental*, Carrao Carlo and Domenico Siniscalco (Eds.), Cambridge University Press, Cambridge.
- Larsen, B. and A. Shaw (1994), *Global Tradable Carbon Permits, Participation Incentives, and Transfers*, Oxford Economic Papers, Vol. 46.
- Ostrom, E. (1990), *Governing the Commons: The Evolution of Institutions for Collective Actions*, Cambridge University Press, Cambridge.
- Whalley, J. and R. Wigle (1997), 'The International Incidence of Carbon Taxes,' in Tietenberg, T. (Ed.), *Economics of Global Warming, 1997*, Edward Elgar, U.K.
- Chopra, K., G.K. Kadekodi and M.N. Murty (1990), *Participatory Development: An Approach to the Management of Common Property Resources*, SAGE, New Delhi.
- Mehta, S., S. Mundle and U. Sankar (1995), *Controlling Pollution: Incentives and Regulation*, SAGE, New Delhi.
- Murty, M.N., A. James and S. Misra (1999), *The Economics of Water Pollution in India*, Oxford University Press, New Delhi.

### Unit III

- Dasgupta, P.S. and G.M. Heal (1985), *Economic Theory and Exhaustible Resources*, Cambridge University Press, Cambridge.
- Dasgupta, P.S. and K.G. Maler (Ed.) (1997), *Environment and Emerging Development Issues*, Cambridge University Press, Cambridge, Mass.
- ESCAP (1997), *Accounting and Valuation of Environment – A Primer for Developing Countries, Volume I*, United Nations, New York.

- Markandya, A. and J. Richardson (Eds.), *The Earth Scan Reader in Environmental Economics*, Earth Scan, London.
- United Nations (1993), *Integrated Environmental and Economic Accounting*, United Nations, New York.
- Bhattacharya, R.N. (Ed.) (2001), *Environmental Economics: An Indian Perspective*, Oxford University Press, New Delhi.
- Chopra, K., G.K. Kadekodi and M.N. Murty (1990), *Participatory Development: An Approach to the Management of Common Property Resources*, SAGE, New Delhi.
- Chopra, K. and G.K. Kadekodi (1999), *Operationalising Sustainable Development : Economic Ecological Modelling for Developing Countries*, Sage, New Delhi.
- Chopra, K. and S.C. Gulati (2000), *Migration and the Management of Common Property Resources: A Study in Western India*, Sage, New Delhi.
- Kerr, J.M. *et al.* (Eds.) (1997), *Natural Resource Economics: Theory and Applications in India*, Oxford and IBH Publication Co. Pvt. Ltd., New Delhi.
- Mehta, S., S. Mundle and U. Sankar (1995), *Controlling Pollution: Incentives and Regulation*, SAGE, New Delhi.
- Murty, M.N., A. James and S. Misra (1999), *The Economics of Water Pollution in India*, Oxford University Press, New Delhi.
- Sengupta, R.P. (2001), *Ecology and Economics: An Approach to Sustainable Development*, Oxford University Press, New Delhi.

#### **Unit IV**

- Becker, G.S. (1974), *Human Capital* (2<sup>nd</sup> Edition), National Bureau of Economic Research, New York.
- McMohan, W.W. (1999), *Education and Development : Measuring the Social Benefits*, Oxford University Press, Oxford.
- Padmanabhan, C.B. (1984), *Financial Management in Education*, Select Books, New Delhi.
- Tilak, J.B.G. (1994), *Education for Development in Asia*, Sage Publications, New Delhi.



- Vaizey, J. (1962), Economics of Education, Faber and Faber, London.
- Woodhall, M. (1992), Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
- Baru, R.V. (1998), Private Health Care in India: Social Characteristics and Trends, Sage Publications, New Delhi.
- Berman, P. and M.E. Khan (1993), Paying for India's Health Care, Sage Publications, New Delhi.
- Panchmukhi, P.R. (1980), Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
- World Bank (1993), The World Development Report, 1993 : Investing in Health, Oxford University Press, New York.

Paper Code: 5325A

## **M.A. (FINAL) ECONOMICS**

### **Optional Paper**

#### **Paper X - A**

### **INDUSTRIAL ECONOMICS**

#### **Unit I**

Concept of the firm and organization of a firm-ownership, control and objective of the firm; Passive and active behaviour of the firm. Product differentiation and Market Concentration, Economies of scale Market structure, profitability and innovation; Theories of industrial location – Weber and Sargent Florence; Factors affecting location.

#### **Unit II**

Product pricing – Theories and evidence; Investment expenditure – methods of evaluating investment expenditure; Mergers and Acquisitions (M&As) of the firms, Diversification of the firm, Size and growth of a firm, growth, profitability of the firm, Productivity, efficiency and capacity utilization – concept and measurement (Indian situation).

#### **Unit III**

Classification of industries; Industrial policy in India – Role of public and private sectors; Recent trends in Indian industrial growth; MNCs and transfer of technology; Liberalization and Privatization, Regional Industrial growth in India; Industrial economic concentration and remedial measures; Structure of industrial labour, employment dimensions of Indian Industry. Industrial relations; Exit Policy and Social security; wages and problems of bonus – labour market reforms.

#### **Unit IV**

Industrial Finance – Owned, external and other component of funds; Role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, commercial banks, Assessment of financial soundness, ratio analysis. Cost – benefit analysis.

## Unit V

Major Indian Industries – Iron and steel; Cotton textiles; Jute; Sugar; Coal; Cement and engineering goods; Development of small scale and cottage industries in India.

### BASIC READING LIST:

- Ahluwalia, I.J. (1985), *Industrial growth in India*, Oxford University Press, New Delhi.
- Barthwal, R.R. (1985), *Industrial Economics*, Wiley Eastern Ltd., New Delhi.
- Cherunilam, F. (1994), *Industrial Economics: Indian Perspective* (3<sup>rd</sup> Edition) Himalaya Publishing House, Mumbai.
- Desai, B. (1999) *Industrial economy in India* (3<sup>rd</sup> Edition) Himalaya Publishing House, Mumbai.
- Divine, P.J. and R.M. Jones *et al.* (1976), *An introduction to industrial economics*, George Allen and Unwin Ltd., London.
- Government of India, *Economic Survey* (Annual).
- Hay, D. and D.J. Morris (1979) *Industrial economics : Theory and Evidence*, Oxford University Press, New Delhi.
- Kuchhal, S.C. (1980), *Industrial Economy of India* (5<sup>th</sup> Edition), Chaitanya Publishing House, Allahabad.
- Reserve Bank of India *Report on currency and Finance* (Annual).
- Singh, A. and A.N. Sadhu (1988) *Industrial Economics*, Himalaya Publishing House, Mumbai.

### ADDITIONAL READING LIST:

## Unit I

- Bains, J.S. (1996) *Industrial Organization* Chetanham, U.K.
- Harndeen, J.B. (1975), *The economics of corporate Economy*, Dunellen Publishers, New York.
- Kanien, M.T. and N.L. Schwartz (1982), *Market Structure and Innovation*, Cambridge University Press, Cambridge.
- Wiles, P.J.D. (1963), *Price, Cost and Output*, Praeger, New York.

## Unit II

- Harndeen, J.B. (1975), *The Economics of Corporate Economy*, Dunellem Publishers, New York.
- Kirkpatrick, C.M., N. Lee and E.I. Nixon (1984), *Industrial Structure and Policy in Less Developed Countries*, ELBS/ George Allen and Unwin, London.
- Menon, K.S.V. (1979), *Development of Backward Areas Through Incentives*, Asia Publishing House, Bombay.
- Smith, D.M. (1971), *Industrial Location : An Economic and Geographical Analysis*, John Wiley, New York.
- Bagchi, A. and M. Banerjee (Eds.) (1979), *Change and Choice in Indian Industry*, Bagchi Publications, Calcutta.
- Kelkar, V.L. and V.V. Bhanoji Rao (Eds.) (1996), *India Development Policy Imperatives*, Tata McGraw Hill, New Delhi.
- Bhagwati, J. and P. Desai (1972), *India: Planning for Industrialisations*, Oxford University Press London.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), *The Development Process of the Indian Economy*, Himalaya Publishing House, Bombay.
- Chakravarty, S. (1987), *Development Planning : The Indian Experience*, Oxford University Press, New Delhi.
- Datta, B. (1992), *Indian Planning at the Crossroads*, Oxford University Press, New Delhi.
- Ghosh, P.K. (1977), *Government and Industry*, Oxford University Press, New Delhi.
- Joshi, V. and I.M.D. Little (1999) *India: Macro Economics and Political Economy: 1964-1991*, Oxford University Press, New Delhi.

## Unit III

- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), *The Development Process of Indian Economy*, Himalaya Publishing House, Bombay.

- Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
- Datta, B. (1992), Indian Planning at the Crossroads, Oxford University Press, New Delhi.
- Dhameeja, N. and K.S. Sastry (1998) Privatisation: Theory and Practice, A.H. Wheeler, New Delhi.
- Jalan, B. (1996), India's Economic Policy, Viking, New Delhi.
- Joshi, V. and I.M.D. Little (1999) India : Macro Economics and Political Economy: 1964-1991. Oxford University Press, New Delhi.
- Kelkar, V.L. and V.V. Bhanoji Rao (Eds.) (1996), India Development Policy Imperatives, Tata McGraw Hill, New Delhi.
- Rama Murti, R. and R. Verman (Eds) (1991), Privatisation and Control of State Owned Enterprises, The World Bank, Washington.
- Sandesara, J.C. (1992), Industrial Policy and Planning – 1947-1991: Tendencies, Interpretations and Issues, Sage Publications, India Pvt. Ltd., New Delhi.
- Das, N. (1969), The Public Sector in India, Vora and Company, Bombay.
- Mamoria and Mamoria (2000), Dynamics of Industrial Relations in India (15<sup>th</sup> Edition), Himalaya Publishing House, Mumbai.
- Sen, R. and B. Chatterjee (2001), Indian Economy : Agenda for the 21<sup>st</sup> Century (Essays in Honour of Professor P.R. Brahmananda), Deep and Deep Publications Pvt. Ltd., New Delhi.

#### **Unit IV**

- Gupta, L.C. (1969), The Changing Structure of Industrial Finance in India, Oxford University Press, New Delhi.
- Khan, M.Y. (1981), Indian Financial Systems, Allied Publishers, New Delhi.
- Sen, R. and B. Chatterjee (2001), Indian Economy: Agenda for the 21<sup>st</sup> Century (Essays in Honour of Professor P.R. Brahmananda), Deep and Deep Publications Pvt. Ltd., New Delhi.

- Dasgupta, P.S., Marglin and A. Sen (1972), Guideline for Project Evaluation, Unido Publications, New York.
- Fog, B. (1959), Industrial Pricing Policies, North Holland, Amsterdam.
- Koutsoyiannis, A. (1979), Modern Micro-economics, Macmillan, New York.

#### **Unit V**

- Ghosh, P.K. (1977), Government and Industry, Oxford University Press, New Delhi.
- Sandesara, J.C. (1982), Industrial Growth in India: Performance and Prospects, Lala Rajpat Rai College, Bombay.

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## **M.A. (FINAL) ECONOMICS**

### **Optional Paper**

#### **Paper X - B**

### **ECONOMETRICS**

#### **Unit I**

Nature, meaning and scope of econometrics; Simple and general linear regression model – Assumptions, Estimation (through OLS method) and properties of good estimators; Gauss-Markov Theorem; Concepts and derivation of  $R^2$  and adjusted  $R^2$ ; Multiple Regression Analysis and its numerical application.

#### **Unit II**

Nature, test, consequences and remedial steps of problems of heteroscedasticity; Multicollinearity, autocorrelation – nature and consequences, detecting autocorrelation and Durbin Watson 'd' statistic and measures to solve the problem of auto correlation. Errors of measurement. Concept of Discriminant Analysis.

#### **Unit III**

Dummy variable technique – Testing structural stability of regression models comparing to regressions, interaction effects, seasonal analysis, piecewise linear regression, use of dummy variables, regression with dummy dependent variables; The LPM, Logit, Probit and Tobit models – Applications.

#### **Unit IV**

Autoregressive and distributed lag models – Koyak model, Rationalisation of Koyak model, The adaptive expectations and partial adjustment model. The method of Instrumental variables; Almon approach to distributed – lag models; Causality in Economics, The Granger Test.

#### **Unit V**

The simultaneous equation model – Introduction and examples. Bias and Inconsistency of OLS estimators; The identification problem; Rules of identification – order and rank conditions; Methods of estimating simultaneous equation system; Recursive methods and OLS; Indirect least squares (ILS); 2SLS, 3SLS methods – Applications.

### **BASIC READING LIST:**

- Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1998), Econometrics, Springer, New York.
- Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
- Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
- Gujarati, D.N. (1995), Basic Econometrics (2<sup>nd</sup> Edition), McGraw Hill, New Delhi.
- Hill, R.C., E.G. William and G.G. Judge (1977), Undergraduate Econometrics, Wiley, New York.
- Kennedy, P. (1998), A Guide to Econometrics (4<sup>th</sup> Edition), MIT Press, New York.
- Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
- Koutsoyiannis, A. (1977), Theory of Econometrics (2<sup>nd</sup> ed.), The Macmillan Press Ltd., London.
- Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot, U.K.
- Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi.

### **ADDITIONAL READING LIST:**

#### **Unit I**

- Croxton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
- Maddala, G.S. (1997), Econometrics, McGraw Hill, New York.



## **Unit II**

- Intrilligator, M.D. (1978), *Econometric Methods. Techniques and Applications*, Prentice Hall, Englewood Cliffs, New Jersey.
- Johnston, J. (1991), *Econometric Methods*, McGraw Hill Book Co., London.
- Anderson, T.W. (1958), *Introduction to Multivariate Statistical Analysis*, Chapman and Hall, London.
- Chatfield, C. and A.J. Collins (1980), *Introduction to Multivariate Analysis*, Chapman and Hall, London.

## **Unit III**

- Chow, G.C. (1983), *Econometrics*, McGraw Hill, New York.
- Pindyck, R.S. and D.L. Rubinfeld (1976), *Econometric Models and Economic Forecasts*, McGraw Hill Kogakusha, Tokyo.

## **Unit IV**

- Chow, G.C. (1983), *Econometrics*, McGraw Hill, New York.
- Frances, P.H. (1998), *Time Series Models for Business and Economic Forecasting*, Cambridge University Press, New York.
- Hamonda, O.F. and J.C.R. Roley (1997), *Time Series Model, Causality and Exogeneity*, Cheltenham, U.K.
- Hansen, P.R. and S. Johanson, (1998), *Workbook on Cointegration*, Oxford University Press, New York.
- Harvey, A.C. (1981), *Econometric Analysis of Time Series*, Philip Allen, London.
- Johnston, J. (1991), *Econometric Methods*, McGraw Hill Book Co., London.
- Maddala, G.S. (1997), *Econometrics*, McGraw Hill, New York.
- Dhrymes, P.J. (1970), *Econometrics – Statistical Foundations and Applications*, Harper and Row Publishers, New York.
- Frances, P.H. (1998), *Time Series Models for Business and Economic Forecasting*, Cambridge University Press, Cambridge.
- Hansen, P.R. and S. Johanson (1998), *Workbook on Cointegration*, Oxford University Press, New York.
- Intrilligator, M.D. (1978), *Econometric Methods. Techniques and Applications*, Prentice Hall, Englewood Cliffs, New Jersey.

### **Unit V**

- Chow, G.C. (1983), *Econometrics*, McGraw Hill, New York.
- Intriligator, M.D. (1978), *Econometric Methods, Techniques and Applications*. Prentice Hall, Englewood Cliffs, New Jersey.
- Pindyck, R.S. and D.L. Rubinfeld (1976), *Econometric Models and Economic Forecasts*, McGraw Hill – Kogakusha, Tokyo.

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Paper Code: 5325C

## **M.A. (FINAL) ECONOMICS**

### **Optional Paper**

#### **Paper X - C**

### **DEMOGRAPHY**

#### **Unit I**

Meaning and scope of demography; Components of population growth and their inter-dependence; Measures of population change; Structure, distribution and sources of population data; Theories of population – Malthus, Optimum theory of population; Theory of demographic transition – Views of Medows, Enke and Simon; Population and development.

#### **Unit II**

Population trends in the twentieth century; Population explosion – Threatened or real, distant or imminent; International aspects of population growth and distribution; Pattern of age and sex structure in more developed and less developed countries; Determinants of age and sex structure; Demographic effects of sex and age structure, economic and social implications; Age pyramids and projections – Individual aging and population aging.

#### **Unit III**

Importance of study of fertility – Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries; Factors affecting fertility – Socio-economic factors, economic status, health, education, nutrition, caste, religion, race, region, rural-urban and status of husband and wife; Nuptiality – Concept and analysis of marital status, single mean age at marriage; Synthetic cohort methods; Trends in age at marriage; Mortality – Death rates, crude and age-specific; Mortality at birth and infant mortality rate; Levels and trends in more and less developed countries; Sex and age pattern of mortality; Factors for decline in mortality in recent past; Life table – Construction and uses; Concepts of stable population; Methods of population projection.

## Unit IV

Concept and types of migration – Temporary, internal and international; International migration – Its effect on population growth and pattern; Factors affecting migration; Theories of migration related to internal migration; Urbanization – Growth and distribution of rural-urban population in developed and developing countries.

## Unit V

Study of census in India – Methodology and characteristics of census; Nature of information collected in 1971, 1981, 1991 and 2001 census in India; National Family Health Survey 1 and 2 and Rapid Household Survey; Changing characteristics of population in India; Population Growth rates, trends and regional variations in sex ratio; Age structure of population, foetal, infant and child mortality rates; Maternal mortality rates; Life expectancy; Appraisal of Kerala model; Pattern of Migration and Urbanization in India. Population, economy and environment linkages – Population, health, nutrition, productivity nexus; population and human development issues; Culture and fertility; Education and fertility, Demography and household economic behaviour, Evolution of population policy in India – The shift in policy from population control to family welfare, to women empowerment; Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies; Population and strategies for human development of different social groups; Social impact of new reproductive technologies and their regulation; The new population policy; Tasks before the National Population Commission.

### **BASIC READING LIST:**

- Agarwal, S.N. (1972), India's Population Problem, Tata McGraw Hill Co., Bombay.
- Bose, A. (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
- Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam.
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- Coale, A.J. and E.M. Hoover (1958), Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton.
- Gulati, S.C. (1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.
- Simon, J.L. (1992), Population and Development in Poor Countries, Princeton University Press.
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.
- Srinivasan, K. and A. Shariff (1998), India: Towards Population and Demographic Goals, Oxford University Press, New Delhi.
- Sryrock, H. *et al.* (1973), The Methods and Materials of Demography, US Department of Commerce, Washington, D.C.
- United Nations (1973), The Determinants and Consequences of Population Trends. Vol. 1, UNO Publications, New York.

#### **ADDITIONAL READING LIST:**

##### **Unit I & II**

- Coale, A.J. and E.M. Hoover (1958), Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton.
- Simon, J.L. (1992), Population and Development in Poor Countries, Princeton University Press.

##### **Unit III & IV**

- Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
- Chiang, C.L. (1974), Life Tables and Mortality Analysis, W.H.O., Geneva.
- Gulati, S.C. (1988), Fertility in India: An Econometrics Study of a Metropolis, Sage, New Delhi.
- Novell, C. (1988), Methods and Models in Demography, Bellhaven Press, London.
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.

## Unit V

- Agnihotri, S.B. (2000), Sex ratio in Indian Population: A Fresh Exploration, Sage, New Delhi.
- Amsden, A.H. (Ed.) (1980), The Economics of Women and Work, Penguin, Harmondsworth.
- Baud, I.S.A. (1992), Form of Production and Women's Labour. Gender Aspects of Industrialization in India and Mexico, Sage, New Delhi.
- Boserup, E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
- Jhabwala, R. and R.K. Subramanya (2000) (Eds.), The Unorganized Sector: Work Security and Social Protection, Sage, New Delhi.
- King M. and M.A. Hill (Eds.) (1993), Women's Education in Developing Countries: Barriers, Benefits and Politics, John Hopkins, Baltimore.
- Krishnaji M., R.M. Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Lewis (Ed), (1989), Strengthening the Poor: What Have We Learnt, OECD, Paris.
- Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
- Gupta, J.A. (2000), New Reproductive Technologies. Women's Health and Autonomy, Indo Dutch Studies on Development Alternatives, Sage, New Delhi.
- Mishra, S. (2000), Voluntary Action in Health and Population: The Dynamics of Social Transition, Sage, New Delhi.
- Mitra, A. (1979), Implications of Declining Sex Ratio in India's Population, Allied, New Delhi.
- Seth, M. (2000), Women and Development : The Indian Experience, Sage, New Delhi.

Paper Code: 5325D

## **M.A. (FINAL) ECONOMICS**

### **Optional Paper**

#### **Paper X - D**

### **COMPUTER APPLICATION IN ECONOMIC ANALYSIS**

#### **Unit I**

Basic components of computer – CPU, input-output devices, keyboard, mouse and scanner video display, printers and plotters, data storage and retrieval, hard disk, floppy disk and CD ROM; Types of computers and their applications; Computer networking and resource sharing, hardware, software and firmware, examples and techniques in programming languages like C, C++, Visual, Basic and Java.

#### **Unit II**

Concept of data, record and file; Types of data and data structures, data analysis; File handling and operations like opening, appending and cascading, closing and attribute control; Data storage and retrieval; Data operations; Algorithms like sorting, merging, joining and bifurcation, Database concepts and operation on database; DBMS and RDBMS.

#### **Unit III**

Series, groups, tables, graphs and objects; Time and frequency series, regression methods and techniques, Regression analysis; Data validation; Trends and cyclicity forecasting; system modelling and description; system equation; specification; Error and correction strategies, Statistical modelling and descriptive statistics; Distribution functions, Regression statistics.

#### **Unit IV**

On line banking; ATM's Electronic stock exchange; Electronic trading; Data sharing and decimation; Electronic transaction; Document delivery; Authentication and validation transaction processing.

#### **Unit V**

Electronic trading and marketing; On line shopping and malls, B2B, B2C, C2B and G2B models and their applications; Document and transaction security and digital signature; Integrated transaction on mobile platforms.

### **BASIC READING LIST:**

- Rajasekaran, S. (1986), Numerical Methods in Science and Engineering, A.H. Wheeler, Allahabad.
- Sanders, D.H. (1988), Computers Today, McGraw Hill (3<sup>rd</sup> Edition), New York.
- Sinha, P.K. (1992), Computer Fundamentals, BPB Publications, New Delhi.

### **ADDITIONAL READING LIST:**

#### **Unit I**

- Rajaraman, V. (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.

#### **Unit II**

- Lipschultz, M.M. and S. Lipschultz (1982), Theory and Problems of Data Processing, Schum's Outline Series, McGraw Hill, New York.
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#### **Unit III**

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**Paper X - E**  
**DISSERTATION**

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