

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. (9th 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 21st 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.
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- 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*, (3rd Edition), W.W. Norton, New York.

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- 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*, (3rd Edition), McGraw Hill, New York.
- Meier, G.M. (1995), *Leading Issues in Economic Development*, (6th 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), (6th Edition), *Economic Development*, Longman, London.
- Thirwal, A.P. (1999), (6th 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.
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- United Nations (1994), *Human Development Report*, United Nations, New York.
- Campbell, N. and F. Burton (Eds.) (1994), *Japanese Multinationals*, Routledge, New York.
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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.
- Nayyar, D. (Ed.) (1994), *Industrial Growth and Stagnation. The Debate in India*, Oxford University Press. New Delhi.
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- 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.
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- 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 (2nd 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*, (5th 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, 4th 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.
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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.
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- 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, (5th Edition), Harper Colins Publishers, New York.
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- Nayyar, 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 21st 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.

Paper Code: 5324

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*, (2nd 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.
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- Bromely, D.W. (Ed.) (1995): *Handbook of Environmental Economics*, Blackwell, London.
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- Fisher, A.C. (1981), *Resource and Environmental Economics*, Cambridge University Press, Cambridge.
- Hanley, N., J.F. Shogern and B. White (1997), *Environmental Economics in Theory and Practice*, Macmillan.
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- Schultz, T.W. (1971), *Investment in Human Capital*, Free Press, New York.
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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.
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- 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.
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- Chopra, K., G.K. Kadekodi and M.N. Murty (1990), *Participatory Development: An Approach to the Management of Common Property Resources*, SAGE, New Delhi.
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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.
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- Markandya, A. and J. Richardson (Eds.), *The Earth Scan Reader in Environmental Economics*, Earth Scan, London.
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- Bhattacharya, R.N. (Ed.) (2001), *Environmental Economics: An Indian Perspective*, Oxford University Press, New Delhi.
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- 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.
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- 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* (2nd 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.
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- 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.
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- 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 (3rd Edition)* Himalaya Publishing House, Mumbai.
- Desai, B. (1999) *Industrial economy in India (3rd 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.
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- 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.
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- 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 (15th Edition), Himalaya Publishing House, Mumbai.
- Sen, R. and B. Chatterjee (2001), Indian Economy : Agenda for the 21st 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 21st 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.

Paper Code: 5325B

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.
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- Gujarati, D.N. (1995), *Basic Econometrics (2nd 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 (4th 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 (2nd 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.
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- Harvey, A.C. (1981), *Econometric Analysis of Time Series*, Philip Allen, London.
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- 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.

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 interdependence; 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.
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- Choubey, P.K. (2000), *Population Policy in India*, Kanishka Publications, New Delhi.

- 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.
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- 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.
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- Novell, C. (1988), *Methods and Models in Demography*, Bellhaven Press, London.
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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.
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- 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.
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- 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 (3rd 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.
- Schildt, H. (1987), C Made Easy, McGraw Hill Co., New York.

Unit III

- Levin, R.I. and C.A. Kirkpatrick (1975), Quantitative approaches to Management (3rd Edition), McGraw Hill.
- Mirsky, L. (1955), Introduction to Linear Algebra, Oxford University Press.

Unit IV and V

- Intrilligator, M.D. (1978), Econometric Models, Techniques and Applications, Prentice Hall, Englewood Cliffs, NJ.
- Wood, M.B. (1983), Introducing Computer Security, Broadman Associates, Delhi.

Paper Code: 5327

Paper X - E
DISSERTATION