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Unit V

- Hadley, G. (1962), Linear Programming, Addison Wesley Publishing Co., Massachusetts.
- Hiller, F.S. and G.J. Lieberman (1985), Operations Research, C.B.S., New Delhi.
- Kothari, C.R. (1992), An Introduction to Operations Research, Vikas Publishing House, New Delhi.
- Kuhn, Harold W. (Ed.) (1997), Classics in Game Theory, Princeton, University Press, Princeton.
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- Nash, J.F. (1996), Essays on Game Theory, Cheltenham, U.K.

M.A. (PREVIOUS) ECONOMICS

Optional Paper

Paper-IX-C

Agriculture Economics

Unit I

Structure and scope of agricultural and rural economics; Traditional agriculture and its modernization; Role of agriculture in economic development; interdependence between agriculture and industry – some empirical evidence; Models of interaction between agriculture and rest of the economy ; Agriculture development, poverty and Environment. Agricultural production—Resource use and efficiency; Production function analyses in agriculture; Factor combination and resource substitution; cost and supply curves; Law of firm and laws of returns- Theoretical and empirical findings; Farm budgeting and cost concepts; Supply response of individual crops and aggregate supply; Resource use efficiency in traditional agriculture; technical change, labour absorption and other issues in agricultural services.

Unit II

Livestock economies- Livestock resources and their productivity; problems of marketing , white revolution, fishery and poultry development; Forestry, Horticulture and floriculture; Issues and problems in

Rural industrialization and development of agro-based industries. Use of land, water and energy; Rural transport, communication, banking, extension services, role, modes and problem of rural electrification; Rural social infrastructure, education and health and information dissemination.

Unit III

Principles of land utilization-structure and trends, land values and rent; land tenures and farming systems- Peasant, capitalist, collective and state farming; Tenancy and crop sharing-Forms, incidence and effects; land reform measures and performance women and land reforms; problems of marginal and small farmers. Rural labour supply; interlocking of factor market; Mobility of Labour and segmentation in labour markets; marginalisation of Rural labour nature, extent and trends in rural unemployment; Agricultural wages in India; Male- Female wage differences; Non-agricultural rural employment- Trends and determinants.

Unit IV

Role of capital and rural credit; organized and unorganized capital market; Rural saving and capital formation; Characteristics and sources of rural credit-institutional and non-institutional; Reorganization of rural credit- cooperatives, commercial banks regional rural banks; Role of NABARD. Marketing and state policy; Agricultural markets and market

Agency- Marketing functions and costs; market structure and imperfections; Regulated markets; Marketed and marketable surplus; Behaviour of agricultural prices- Cobweb model; price and income elasticity; State policy with respect to Agricultural marketing; warehousing; prices; Taxation and crop insurance; Terms of trade between Agricultural and agricultural prices; Need for state intervention; Objectives of agricultural price policy- instrument and evaluation; Food security in India and public distribution system.

Unit V

Recent trends in Agricultural growth in India; Inter-annual variation in growth of output and productivity; cropping pattern shifts; supply of inputs -Irrigation, water, seed and fertilizers; pricing of inputs and role of subsidies; Distribution of gains from technological change; Role of public investment and capital formation in Indian agriculture; Strategy of Agricultural Development and technological progress; Sustainable agriculture -indigenous practices; Biotechnological practices and growth potential. International trade in agricultural commodities; Commodity agreements- Role of World Trade Organization; Issues in Liberalization of domestic and international trade in agriculture- Nature and features of agri-business; Role of MNCs; Globalization of Indian Economy and problems and Prospect of Indian agriculture; Impact of World Trade Organization on Indian agriculture.

Basic Reading List :

- Bilgrami, S.A. R. (1996) , Agricultural Economics, Himalaya publishing house, Delhi.
- Dantwala, M.L. et.al (1991) Indian Agricultural Development since independence , Oxford and IBH, New Delhi.
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- Raj, K.N.et.al.(1988), Essays in the Commercialisation of Indian Agriculture, Oxford University Press, New Delhi.
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- Wanmali S. and C. Ramasamy (Eds) (1995), Developing Rural Infrastructure, Macmillian, New Delhi.
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- Visaria, P. and R. Basant (1994) , Non Agricultural Employment in India: Trend and Prospects, Saga Publications, New Delhi.
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