

BHARATHIAR UNIVERSITY: COIMBATORE - 46
M.Phil., / Ph.D., in GEOGRAPHY
PAPER – III: ENVIRONMENTAL GEOGRAPHY

Unit –I

Nature and scope of environmental studies – role of geography in environment– man and environment relationship, Concepts: –Determinism – Possibilism – Marxian view on environment – concept of Ecosystem, Changing nature – Recent research in environmental geography in India.

Unit –II

Ecosystem: structure – classification – Biomes – functioning of the ecosystem – food web – food pyramid – nutrient cycles – natural disruptions of the Ecosystem – Natural Hazards: causes and consequences, cyclone, floods, drought and famine and others and their impacts in India .Human interference on ecosystem – Population growth and its impact.

Unit –III

Man's modification of the biosphere –lithosphere, atmosphere, hydrosphere – factors and effects, Mans impact on Agriculture –landuse – soilscropping- management green revolution –HYV-fertilizers- pesticides-needs and their implications – Man's impact on land, mining, soils and coastal areas and forest.

Unit –IV

Human settlements and environments- rural environment– urban environment-industrial environment–urban climate- rural and urban environment degradation- rural ecology- urban ecology – emerging problemshuman health- quality of life-management- emerging environmental degradation – emerging environmental issues.

Unit –V

Eco-crisis – Environmental management and planning – Environmental management in India- CIPCO movement- major environmental problems in India- Social forestry- Green India- environmental quality – environmental law and protection - environmental impact assessment and need for interdisciplinary approach- Earth summit – IPCC- UNFCCC.

Reference:

1. Odum.E.P. (1971) Fundamental of Ecology, W.B.Sunders Co, Philadelphia.
2. Peter Hagett (2001) – Geography - A.Modern Synthesis, Prentice Hall, London
3. Savindra Singh (1991) - Environmental Geography, Kalyan Publications, New Delhi.
- 4.Paul R. Ehrlich, Anne H. Ehrlich, and John P. Holdren (1977) - Ecoscience: population, resources, environment, Edition3, W. H. Freeman Publishers.

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M.Phil., / Ph.D., in GEOGRAPHY
PAPER – III: AGRICULTURAL GEOGRAPHY

Unit –I

Agriculture Geography–definition-nature-Scope and content of agriculture geography–approaches to agriculture geography–origin of agriculture-Genecenter-Genecenter of the world-development and dispersal of agriculture–major agricultural systems of the world-Agriculture system in India

Unit –II

Determinants of agriculture: physical- climate –Temperature – Rainfall- Humidity- Frost- Wind. Social determinant- land ownership and land tenure system in India- Land fragmentation- Economic determinant- Capital- Labour- Machineries- technological developments in Agriculture, - Models in Agricultural Geography: Von Thunen’s model and Jonsasson’s model.

Unit –III

Agricultural Statistics-data–land data-soil data- G return- F Particulars- Sources- Government-Private- Other Agencies- Land use Survey- need for landuse survey- land use classification- USDA classification- and Indian classification - landuse survey in India- Remote sensing- GPS survey.

Unit –IV

Agriculture Regionalization- Concept of regionalization- Classification-Land capability classification- Crop region- Crop intensity- Crop concentration and diversification, crop combination regions – Definition- Crop combination analysis- Weaver, Doi and Rafiullah methods- Crop combination analysis in India.

Unit –V

Agricultural productivity –Factors determining- Agriculture productivity in India and Tamilnadu- Green revolution and its impact- HYV– Pesticides- Fertilizer- Technological development and their impact on agriculture landuseagriculture regions of India and Tamilnadu- Agriculture research institutions in India and their role in Indian Agriculture.

Reference :

1. Hussian.M. (1979) - Agricultural Geography, Inter India publication, New Delhi.
2. Mohamand, (1981) - Perspective Agricultural Geography, Vol. Concepts Publishing Company, New Delhi.
3. Morgan, W.B. & Munton R.J.C (1971) - Agricultural Geography, Methuen, London.
4. David Grigg (1984) – An introduction to Agricultural Geography, Hutchinson, London
5. Mohamad Shagi (2006) – Agricultural Geography, Dorling Kinderlay (India) Pvt. Ltd. – New Delhi.

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M.Phil., / Ph.D., in GEOGRAPHY
PAPER – III: POPULATION GEOGRAPHY

Unit –I

Geography of Population –Definition- scope and development. – nature and content- Development of population Geography- Recent research in population geography in India- sources of population data- vital statistics- Collection of population data- Census methods- Socio-economic survey and problems.

Unit –II

World population -growth- distribution- pattern and factors affecting it – India population- growth –distribution- pattern and factors controlling and population problems- theoretical issues: classical and modern theories in population growth – Malthus, Optimum Theory, Ricardo and Demographic Transition.

Unit –III

Population composition: age structure- sex ratio- family and households - literacy and education- religion- caste and tribe - rural and urban - occupational structure - gender issues. Population composition of India- rural urban comparison. Population explosion and problems.

Unit –IV

Population dynamics: fertility and mortality- factors influencing fertility and mortality- fertility and mortality status in India and Tamilnadu- Migration: types- national and international migration- internal and external migration rural urban migration- seasonal migration and associated problems in India

Unit –V

Population and development: population policies in developed and less developed countries - Human Development Index and its components - India's population policies - Population and Environment –Human health/deceases- human rights- human rights in India- implications for the future.

Reference :

1. Beaujeau Garnier J. (1966) - Geography of Population, Longman Group, London.
2. B.N.Ghosh (1985) - Fundamentals of population geography, sterling publishing, New Delhi.
3. Clark I.(Ed.1984) - Geography & Population, Approaches – Pergamon press, Oxford.
4. Chandha, R.C (1986) - A Geography of population, Concepts, patterns, Kalyani publishers, New Delhi.
5. Trewartha G.T. (1969) - A Geography of population, World patterns, John Wiley & sons. New York.