

## Truncated CBCS Syllabus for Undergraduate Honours and General Courses in Geography

FOR THE END SEMESTER EXAMINATION OF SEMESTERS II, IV AND VI

EXPECTED TO BE HELD IN AUGUST 2021

Semester	Course	Course Code	Title	Credit	Marks	Remarks
II	Core	GEOACOR03T	Human Geography	06	75	Compulsory
	Core	GEOACOR04T	Cartograms and Thematic Mapping	04	50	Compulsory
		GEOACOR04P	Cartograms and Thematic Mapping (Lab)	02	25	Compulsory
	GE	XXXHGEC02T		06	75	Second course of the same subject (A) taken as XXXHGEC01T
	AECC	ENGSAEC02M	Communicative English	02	25	Compulsory
IV	Core	GEOACOR08T	Regional Planning and Development	06	75	Compulsory
	Core	GEOACOR09T	Economic Geography	06	75	Compulsory
	Core	GEOACOR10T	Environmental Geography	04	50	Compulsory
		GEOACOR10P	Environmental Geography (Lab)	02	25	
	GE	XXXAGEC04T		06	75	Second course of the same subject (B) taken as XXXHGEC03T
	SEC	GEOSSEC02M	Advanced Spatial Statistical Techniques	02	25	Compulsory
VI	Core	GEOACOR13T	Evolution of Geographical Thought	06	75	Compulsory
	Core	GEOACOR14T	Remote Sensing and GIS	04	50	Compulsory
		GEOACOR14P	Remote Sensing and GIS (Lab)	02	25	Compulsory
	DSE	GEOADSE04T	Hydrology and Oceanography	06	75	Compulsory
		GEOADSE05T	C. Social Geography	06	75	Students to choose any one of the two courses (C or D)
	DSE	GEOADSE06T	D. Resource Geography	06	75	

## **GEOACOR03T – Human Geography** ✧

6 Credits, 75 Marks [90 classes]

### Unit I: Nature and Principles

1. Nature, scope and recent trends. Elements of Human Geography
2. Approaches to Human Geography; Environmental
3. Concept and classification of race
4. Cultural regions (language and religion)

### Unit II: Society, Demography and Ekistics

5. Evolution of human societies: Hunting and food gathering, pastoral nomadism, subsistence farming and industrial society
6. Human adaptation to environment: Masai
7. Population growth and distribution, demographic transition
8. Types and patterns of rural settlements
9. Morphology of urban settlements

### Reading List

- Chandna, R.C. 2016. Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers.
- Fouberg, E.H., Murphy, A.B., de Blij H.J. 2015. Human Geography: People, Place, and Culture, 11th ed, Wiley.
- Ghosh, S. 1998. Introduction to Settlement Geography, Sangam Books Ltd.
- Gould, W.T.S. 2015. Population and Development, Routledge.
- Gregory, D., Johnston, R., Pratt, G., Watts., Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley.
- Knox, P.L., Marston, S.A. 2014. Human Geography: Places and Regions in Global Context, 6th ed, Pearson Education Limited.
- Knox, P.L., McCarthy, L.M. 2011. Urbanization: An Introduction to Urban Geography, 3rd ed, Pearson Education Ltd.
- Mandal, R.B. 2001. Introduction to Rural Settlement, 2nd ed, Concept Publishing Company.
- Moseley, W.G., Perramond, E., Hapke, H.M., Laris, P. 2013. An Introduction to Human-Environment Geography: Local Dynamics and Global Processes, Wiley-Blackwell.
- Norton, W. 2014. Human Geography, 8th ed, Oxford University Press.
- Pickering K. and Owen A. A. (1997): An Introduction to Global Environmental Issues, 2nd edition Rutledge, London.
- Rubenstein, J.M. 2016. The Cultural Landscape: An Introduction to Human Geography, 12th ed, Pearson Education Limited.
- Short, R.J. 2017. Human Geography: A Short Introduction, 2nd ed, Oxford University Press.

## **GEOACOR04T – Cartograms and Thematic Mapping ✧**

4 Credits, 50 Marks [60 classes]

1. Concepts of rounding, scientific notation, logarithm and anti-logarithm, natural and log scales
2. Diagrammatic representation of data: Line, Bar, Isopleths
3. Representation of socio-economic data: Dots and spheres, proportional circles and Choropleth
4. Bearing: Magnetic and true, whole-circle and reduced
5. Basic concepts of surveying and survey equipment: Prismatic Compass, Dumpy Level, Theodolite

### Reading List

Basak, N.N. 2017. Surveying and Levelling, 2nd ed, McGraw Hill Education.

Bolton. T. 2009 (reprint). Geological Maps: Their Solution and Interpretation, Cambridge University Press.

Kanetkar, T.P., Kulkatni, S.V. 1988. Surveying and Levelling, Part I, Pune VidyarthiGrihaPrakashan.

Monkhouse, F.J., Wilkinson, H.R. 1971. Maps and Diagrams: Their Compilation and Construction, 3rd ed (2017 reprint), Alphaneumera-Kolkata.

Robinson, A.H., Morrison, J.L., Phillip, C.M., Kimerling, A.J., Guptill, S.C. 1995. Elements of Cartography, 6th ed, Wiley.

Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan Private Ltd.

Singh, R.L., Singh, R.P.B. 2008. Elements of Practical Geography, Kalyani Publishers.

Subramanian, R. 2012. Surveying and Levelling, 2nd ed, Oxford University Press

## **GEOACOR04P – Cartograms and Thematic Mapping (Lab) ✨**

2 Credits, 25 Marks [60 classes]

1. Thematic maps:
  - Choropleth showing density of population
  - Dots and Spheres diagram showing distribution of rural and urban population.
  - Proportional pie-diagrams representing economic data and land use data
2. Traverse survey using prismatic compass, Profile survey using dumpy Level

### Reading List

Basak, N.N. 2017. Surveying and Levelling, 2nd ed, McGraw Hill Education.

Bolton. T. 2009 (reprint). Geological Maps: Their Solution and Interpretation, Cambridge University Press.

Kanetkar, T.P., Kulkatni, S.V. 1988. Surveying and Levelling, Part I, Pune VidyarthiGrihaPrakashan.

Monkhouse, F.J., Wilkinson, H.R. 1971. Maps and Diagrams: Their Compilation and Construction, 3rd ed (2017 reprint), Alphaneumera-Kolkata.

Robinson, A.H., Morrison, J.L., Phillip, C.M., Kimerling, A.J., Guphill, S.C. 1995. Elements of Cartography, 6th ed, Wiley.

Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan Private Ltd.

Singh, R.L., Singh, R.P.B. 2008. Elements of Practical Geography, Kalyani Publishers.

Subramanian, R. 2012. Surveying and Levelling, 2nd ed, Oxford University Press

## **GEOACOR08T – Regional Planning and Development** ✧

6 Credits, 75 Marks [90 classes]

### Unit I: Regional Planning

1. Concept of regions: Types of regions and their delineation
2. Regional Planning: Types, principles, objectives
3. Multi- level planning in India
4. Metropolitan concept and urban agglomerations

### Unit I: Regional Development

5. Concepts of growth and development
6. Indicators of development: Economic, social and environmental
7. Human development: Concept
8. Cumulative causation model for regional development (Myrdal)
9. Concept and causes of underdevelopment
10. Regional development in India: Disparity and diversity

### Reading List

- Bhargava, G. 2001. Development of India's Urban, Rural, and Regional Planning in 21st Century: Policy Perspective, Gyan Publishing House.
- Chand, M., Puri, V.K. 2000. Regional Planning In India, Allied Publishers Ltd.
- Chandana, R.C. 2016. Regional Planning and Development, 6th ed, Kalyani Publishers.
- Glasson, J. 2017. Contemporary Issues in Regional Planning, Routledge.
- Gore, C. 2011. Regions in Question: Space, Development Theory, and Regional Policy, Routledge.
- Gregory, D., Johnston, R., Pratt, G., Watts.,Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley.
- Hall, P., Tewdwr-Jones, M. 2010. Urban and Regional Planning, Routledge.
- Higgins, B., Savoie, D.J. 2017. Regional Development: Theories and Their Application, Routledge.
- Kulshetra, S.K. 2012. Urban and Regional Planning in India: A Handbook for Professional Practitioners, Sage Publication.
- Kumar, A., Meshram, D.S., Gowda, K. (Eds) 2016. Urban and Regional Planning Education: Learning for India, Springer.
- Misra, R.P. 1992. Regional Planning: Concepts, Techniques , Policies and Case Studies, Concept Publishing.
- Ray, J. 2001. Introduction to Development & Regional Planning, Orient Blackswan.

## **GEOACOR09T — Economic Geography** ✧

6 Credits, 75 Marks [90 classes]

### Unit I: Concepts

1. Concepts in Economic Geography: Goods and services, production, exchange and consumption
2. Concept of economic man
3. Economic distance and transport costs

### Unit II: Economic Activities

4. Concept and classification of economic activities
5. Factors affecting location of economic activity with special reference to industry (Weber).
6. Secondary activities: Concept of manufacturing regions, special economic zones and technology parks
7. Tertiary activities: Transport and services
8. Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe
9. International trade and economic blocs: WTO, GATT and BRICS: Evolution, structure and functions

### Reading List

#### BOOKS:

- .Aoyama, Y., Murphy, J.T., Hanson, S. 2010. Key Concepts in Economic Geography, Sage.
- Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey
- Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
- Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
- Wheeler, J.O., Muller, P.O., Thrall, G.I., Fik, T.J. 1998. Economic Geography, 3rd ed, Wiley.
- Willington D. E., 2008: Economic Geography, Husband Press.
- Wood, A., Roberts, A. 2010. Economic Geography: Places, Networks and Flows, Routledge.

## **GEOACOR10T—Environmental Geography** ✧

4 Credits, 50 Marks [60 classes]

### Concepts

1. Concept of holistic environment and systems approach
2. Ecosystem: Concept, structure and functions

### Environmental problems and policies

3. Urban environmental issues with special reference to waste management
4. Environmental policies – National Environmental Policy, 2006, Earth Summits (Stockholm, Rio, Johannesburg)
5. Global initiatives for environmental management (special reference to Montreal Protocol, Kyoto Protocol, Paris Climate Summit)

### Reading List

- Basu, R. and Bhaduri, S. (Eds) 2007. Contemporary Issues and Techniques in Geography, Progressive Publishers.
- Chandna, R.C. 2002. Environmental Geography, Kalyani Press.
- Chapman, J.L., Reiz, M.J. 1993. Ecology: Principle and Applications, Cambridge University Press.
- Cunningham, W.P., Cunningham, M.A. 2004. Principals of Environmental Science: Inquiry and Applications, Tata Macgraw Hill.
- Gilpin, A., 1994. Environmental Impact Assessment: Cutting Edge for the 21st Century, Cambridge University Press.
- Goudie, A. 2001. 2013. The Human Impact on the Natural Environment: Past, Present, and Future, 7th ed, Wiley-Blackwell.
- Miller, G.T. 2004. Environmental Science: Working with the Earth, Thomson Brooks.
- Odum, E.P., Barrett, G.W. 2005. Fundamentals of Ecology, Ceneage Learning.
- Raven, P.H., Hassenzahl, D.M., Hager, M.C., Gift, N.Y., Berg, L.R. 2015. Environment, 9th ed, Wiley.
- Sharma, P.D. 2011. Ecology and Environment, Rastogi Publications.
- Singh, S. 2013. Environmental Geography, PrayagPustakBhawan.
- Withgott, J.H., Laposata, M. 2017. Environment: The Science behind the Stories, 6th ed, Pearson.

## **GEOACOR10P—Environmental Geography** ✧

2 Credits, 25 Marks [60 classes]

1. Preparation of questionnaire for perception survey on environmental problems
2. Preparation of check-list for Environmental Impact Assessment of an urban / industrial project
3. Interpretation of air quality using CPCB / WBPCB data

### Reading List

Gilpin, A., 1994. Environmental Impact Assessment: Cutting Edge for the 21st Century, Cambridge University Press.

#### WEBSITES:

BBC – Science & Environment: [www.bbc.com/news/science\\_and\\_environment](http://www.bbc.com/news/science_and_environment)

Central Pollution Control Board: [www.wbpcb.gov.in](http://www.wbpcb.gov.in)

Centre for Science and Environment: [www.cseindia.org](http://www.cseindia.org)

Ministry of Environment, Forest and Climate Change: [www.envfor.nic.in](http://www.envfor.nic.in)

The Energy and Resources Institute: [www.teriin.org](http://www.teriin.org)

The World Bank – Environment: [www.worldbank.org/en/topic/environment](http://www.worldbank.org/en/topic/environment)

United Nations Environment Programme: [www.unenvironment.org](http://www.unenvironment.org)

West Bengal Pollution Control Board: [www.cpcb.nic.in](http://www.cpcb.nic.in)



## **GEOACOR13T – Evolution of Geographical Thought** ✧

6 Credits, 75Marks [90 classes]

### Unit I: Nature of Pre Modern Geography

1. Development of Geography: Contributions of Greek and Chinese geographers
2. Impact of 'Dark Age' in Geography and Arab contributions
3. Geography during the age of 'Discovery' and 'Exploration' (contributions of Columbus, Vasco da Gama, Magellan)
4. Dualism and Dichotomies (Ideographic vs. Nomothetic, Physical vs. Human, Determinism vs. Possibilism,)

### Unit II: Foundations of Modern Geography and Recent Trends

5. Evolution of Geographical thoughts in Britain and United States of America
6. Contributions of Humboldt and Ritter
7. Contributions of Ratzel and Vidal deLaBlaché
8. Trends of geography in the post-World War-II period: Quantitative Revolution, systems approach.
9. Evolution of Critical Geography: Behavioural, humanistic and radical.

### Reading List

- Adhikari, S. 2015. Fundamentals of Geographical Thought, Orient Blackswan.
- Clifford, N. Holloway S.L., Rice, S.P., Valentine, G. 2009. Key Concepts in Geography, 2nd ed, Sage.
- Couper, P. 2015. A Student's Introduction to Geographical Thought: Theories, Philosophies, Methodologies, Sage.
- Cresswell, T. 2013. Geographic Thought: A Critical Introduction, Wiley-Blackwell.
- Dikshit, R.D. 2004. Geographical Thought: A Contextual History of Ideas, Prentice Hall India.
- Holt-Jensen, A. 2011. Geography: History and Concepts: A Student's Guide, Sage.
- Husain, M. 2015. Evolution of Geographical Thought, 6th ed, Rawat Publications.
- Gregory, D., Johnston, R., Pratt, G., Watts.,Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley.
- Pete, P. 1998. Modern Geographical Thought, Wiley-Blackwell.

## **GEOACOR14T – Remote Sensing and GIS** ✨

4 Credits, 50 Marks [60 classes]

### Unit I: Remote Sensing

1. Principles of Remote Sensing (RS): Types of RS satellites and sensors
2. Sensor resolutions and their applications with reference to IRS and Landsat missions
3. Preparation of False Colour Composites from IRS LISS-3 and Landsat TM and OLI data.
4. Principles of image correction and interpretation. Preparation of inventories of landuse land cover (LULC) features from satellite images.

### Unit II: Geographical Information Systems and Global Navigation Satellite System

5. Concept of GIS and its applicability ; GIS data structures: types: spatial and non-spatial, raster and vector
6. Principles of preparing attribute tables and data manipulation and overlay analysis
7. Principles of GNSS positioning

### Reading List

- Bhatta, B. 2011. Global Navigation Satellite Systems: Insights into GPS, GLONASS, Galileo, Compass and Others, CRC Press.
- Bhatta, B. 2011. Remote Sensing and GIS, 2nd ed, Oxford Univ. Press.
- Bolstad, P. 2016. GIS Fundamentals: A First Text on Geographic Information Systems, 5th ed, XanEdu Publishing.
- Brewer, C.A. 2015. Designing Better Maps: A Guide for GIS Users, 2nd ed, Esri Press.
- Harvey, F. 2015. A Primer of GIS: Fundamental Geographic and Cartographic Concepts, 2nd ed, The Guilford Press.
- Jensen, J.R., 2013. Remote Sensing of the Environment: An Earth Resource Perspective, Pearson Education India.
- Joseph, G. and Jegannathan, C. 2018. Fundamentals of Remote Sensing, 3rd ed, Universities Press.
- Lillesand, T.M., Kiefer, R.W. and Chipman, J.W., 2015. Remote Sensing and Image Interpretation, 7th ed, Wiley.
- Sarkar, A. 2015. Practical Geography: A Systematic Approach. 2nd ed, Orient Black Swan Private Ltd.

## **GEOACOR14P – Remote Sensing and GIS** ✧

2 Credits, 25 Marks [60 classes]

1. Preparation of land use and land cover map from standard FCC and its interpretation
2. Representation of raster and vector data format.
3. Area and length calculations from GNSS data.

Reading List
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WEBSITES:

International Society for Photogrammetry and Remote Sensing: [www.isprs.org](http://www.isprs.org)

NASA Landsat Science: [www.landsat.gsfc.nasa.gov](http://www.landsat.gsfc.nasa.gov)

National Remote Sensing Centre: [www.nrsc.gov.in](http://www.nrsc.gov.in)

USGS Global Visualization Viewer: [www.glovis.usgs.gov](http://www.glovis.usgs.gov)

## GEOADSE04T – Hydrology and Oceanography ✧

6 Credits, 75 Marks [90 classes]

### Unit-I: Hydrology

1. Systems approach in hydrology. Global hydrological cycle: Its physical and biological role
2. Run off: controlling factors. Infiltration and evapotranspiration.
3. Drainage basin as a hydrological unit. Principles of watershed management
4. Groundwater: Occurrence and storage. Factors controlling recharge, discharge and movement

### Unit-II: Oceanography

5. Major relief features of the ocean floor: characteristics and origin according to plate tectonics
6. Physical and chemical properties of ocean water
7. Water mass, T–S diagram
8. Ocean temperature and salinity: Distribution and determinants

### Reading List

- Dingman, S.L. 2015. Physical Hydrology, 3rd ed, Macmillan Publishing Co.
- Fitts, C.R. 2002. Groundwater Science, Elsevier.
- Garrison, T. 2016. Oceanography: An Invitation to Marine Science, 9th ed, Cengage Learning.
- Kearey, P., Klepeis, K.A., Vine, F.J. 2011. Global Tectonics, 3rd ed, Wiley-India.
- Karant, K.R., 1988: Ground Water: Exploration, Assessment and Development, Tata- McGraw Hill, New Delhi.
- Pinet, P.R. 2014. Invitation to Oceanography. 7th ed, Jones and Barlett Publishers.
- Pinneker, E.V. 2010. General Hydrogeology, Cambridge University Press.
- Pugh, D., Woodworth, P. 2014. Sea-Level Science: Understanding Tides, Surges, Tsunamis and Mean Sea-Level Changes, 2nd ed, Cambridge University press.
- Raghunath, H.M. 2006. Hydrology: Principles, Analysis, Design, 3rd ed, New Age International Publishers.
- Reddy, P.J.R. 2014. A Textbook of Hydrology, University of Science Press.
- Subramanya, K. 2013. Engineering Hydrology, McGraw Hill Education.
- Sverdrup, K.A., Armrest, E.V. 2010. An Introduction to the World Oceans, 10th ed, McGraw Hill.
- Todd, D.K., Larry, W.M. 2004. Groundwater Hydrology, John Wiley & Sons.
- Ward, A.D., Trimble, S.W., Burckhard, S.R., Lyon, J.G. 2016. Environmental Hydrology, 3rd ed, CRC Press.

## GEOADSE05T – Social Geography ✨

6 Credits, 75 Marks [90 classes]

### Unit I: Society, Identity and Crisis

1. Concept of space, Social differentiation and stratification
2. Social Categories: Caste, Class, Religion and their spatial distribution in India
3. Evolution of social-cultural regions of India
4. Social groups and social behaviour

### Unit II: Social Wellbeing and Planning

5. Concept of Social Well-being, Quality of Life
6. Measures of Social Well-being: Healthcare and Education
7. Social Geographies of Inclusion and Exclusion, Slums, Gated Communities, Communal Conflicts and Crime.
8. Social Impact Assessment (SIA): Concept and importance

### Reading List

- Ahmed A., 1999. Social Geography, Rawat Publications.
- Casino, V. J. D., Jr., 2009. Social Geography: A Critical Introduction, Wiley Blackwell.
- Cater, J. and Jones T., 2000: Social Geography: An Introduction to Contemporary Issues, Hodder Arnold.
- Gregory, D., Johnston, R., Pratt, G., Watts., Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley.
- Holt, L., 2011. Geographies of Children, Youth and Families: An International Perspective, Taylor & Francis.
- Majumdar, P.K. 2013. India's Demography: Changing Demographic Scenario in India, Rawat Publications.
- Mukherji, S. 2013. Migration in India: Links to Urbanization, Regional Disparities and Development Policies, Rawat Publications
- Panelli, R., 2004. Social Geographies: From Difference to Action, Sage.
- Rachel, P., Burke, M., Fuller, D., Gough, J., Macfarlane, R. and Mowl, G. 2001. Introducing Social Geographies, Oxford University Press.
- Smith, D. M., 1994. Geography and Social Justice, Blackwell, Oxford.
- Smith, S.J., Pain, R., Marston, S. A., Jones, J. P., 2009. The SAGE Handbook of Social Geographies, Sage Publications.
- Valentine, G. 2014. Social Geographies: Space and Society, Routledge.

## GEOADSE06T – Resource Geography ✨

75 Marks, 6 Credits [90 classes]

### Unit I: Resource and Development

1. Approaches to Resource Utilization: Utilitarian, Conservational, Community based adaptive
2. Significance of Resources: Backbone of Economic growth and development
3. Problems of resource depletion—global scenario (forest, water, fossil fuels).
4. Conservation of Natural Resources

### Unit II: Resource Conflict and Management

5. Distribution, Utilisation, Problems and Management of Mineral Resources: Bauxite and Iron Ore.
6. Distribution, Utilisation, Problems and Management of Energy Resources: Conventional and Non-Conventional
7. Concept of Resource sharing: Water

### Reading List

- Chiras, D.D., Reganold, J.P. 2009. Natural Resource Conservation: Management for a Sustainable Future, 10th ed, Pearson.
- Cutter, S.N., Renwick, H.L., Renwick, W. 1991. Exploitation, Conservation, and Preservation: A Geographical Perspective on Natural Resources Use, John Wiley and Sons.
- Gadgil, M., Guha, R. 2005. The Use and Abuse of Nature: Incorporating This Fissured Land: An Ecological History of India and Ecology and Equity, Oxford University Press.
- Gregory, D., Johnston, R., Pratt, G., Watts, Whatmore, S. (Eds) 2009. The Dictionary of Human Geography, 5th ed, Wiley.
- Holechek, J.L.C., Richard, A., Fisher, J.T., Valdez, R. 2003. Natural Resources: Ecology, Economics and Policy, Prentice Hall.
- Jones, G., Hollier, G. 1997. Resources, Society and Environmental Management, Paul Chapman.
- Klee, G. 1991. Conservation of Natural Resources, Prentice Hall.
- Mather, A.S., Chapman, K. 1995. Environmental Resources, John Wiley and Sons.
- Mitchell, B. 1997. Resource and Environmental Management, Longman Harlow.
- Owen, S., Owen, P.L. 1991. Environment, Resources and Conservation, Cambridge University Press.
- Rees, J. 1990. Natural Resources: Allocation, Economics and Policy, Routledge.

## GEOHGEC02T – Human Geography ✨

6 Credit, 75 Marks [90 classes]

### Unit I Population and Social Geography

1. Factors of Growth and distribution of world population. Demographic Transition Theory.
2. World Population Composition: Age, Gender and Literacy.
3. Migration: Types, causes and consequences.
4. Space and Society: Cultural Regions; Race; Religion and Language
5. Contemporary social issues: Illiteracy and Poverty

### Unit II Economic and Settlement Geography

6. Sectors of the economy: primary, secondary, tertiary and quaternary
7. Types of agriculture: Intensive subsistence rice farming, Plantation agriculture (Tea and Coffee)
8. Location, problems and prospects of Indian industries — Cotton textile, Petroleum refining, Locomotive
9. Types and Patterns of Rural Settlements
10. Classification of Urban Settlements; Trends and Patterns of World Urbanization

### Reading List

Chandna, R.C. (2010) Population Geography, Kalyani Publisher.

Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.

Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata

Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.

Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.

Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.

Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.

## GEOHGEC04T – Environmental Geography ✧

6 Credits, 75 Marks [90 classes]

### Concepts

1. Human-Environment Relationship in equatorial, desert and coastal regions
2. Concept of holistic environment and system approach
3. Ecosystem: Concept, structure and functions

### Environmental problems and policies

4. Environmental Problems and Management: Biodiversity Loss; Solid and Liquid Waste.
5. Environmental problems and management: Desertification and soil erosion
6. New Environmental Policy of India, 2006.

### Reading List

Casper J.K. (2010) Changing Ecosystems: Effects of Global Warming. Infobase Pub. New York.

Hudson, T. (2011) Living with Earth: An Introduction to Environmental Geology, PHI Learning Private Limited, New Delhi.

Miller, G.T. (2007) Living in the Environment: Principles, Connections, and Solutions, Brooks/ Cole Cengage Learning, Belmont.

Singh, R.B. (1993) Environmental Geography, Heritage Publishers, New Delhi.

UNEP (2007) Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme. University Press, Cambridge.

Wright R. T. and Boorse, D. F. (2010) Toward a Sustainable Future, PHI Learning Pvt Ltd, New Delhi.

Singh, R.B. and Hietala, R. (Eds.) (2014) Livelihood security in Northwestern Himalaya:

Case studies from changing socio-economic environments in Himachal Pradesh, India. Advances in Geographical and Environmental Studies, Springer