**(For 2020-21 academic year)**

**FIRST SEMESTER**

**Core Paper - 1**

**Gr – 101. GEOMORPHOLOGY**

( Effective from the admitted batch of 2015-16)

Unit – I Fundamental concepts in Geomorphology. The concepts of erosional cycle-, Peneplain concept- Davis and Penck's. Applied aspects of geomorphology

Unit – II Interior of the earth - Isostasy – Theories of continental drift– Mountain building

 Activity – Plate tectonics.

Unit – III Earth movements: Tectonic movements – Folds, Faults. Earthquakes, Volcanicity and the

 Associated topographic forms.

Unit – IV Landforms and earth materials. Processes of weathering, mass wasting and erosion.

**Unit-V is for assignment.**

**Unit – V Landforms made by (a) streams (b) wind (c) underground water (d) Waves (e) Glaciers**

**Text Books**:

A.N. Strahler. Physical Geography, Wiley Eastern Pvt. Ltd., New Delhi, 1969.

Savindra Singh. Geomorphology. Prayag Pustak Bhawan, Allahabad, India

**References :**

W.D. Thornbury. Priciples of Geomorphology, john Wiley & Sons, 1958

A.K. Lobeck. Geomorphology, McGraw Hill Book Co. 1930.

A.F. Fitty. Introduction to Geomorphology, Methuen & Co., London, 1971.

Wooldridge, S.W. & Morgan, R.S. An outline of Geomorphology, London, 1969.

J.A. Steers. The Unstable Earth, Lyell Book Dept, Ludhiana, 1961.

A.N. Strahler & A.R. Strahler. Modern Physical Geography, John Wiley, 1978.

Dayal, P. A text book of Geomorphology, Shukla Book Dept, Patna, 1976.

Kale V. and Gupta, A. Elements of Geomorphology. Oxford University Press, Calcutta. 2001

R.J. Chorley and B.A. Kennedy, physical Geography, Prentice Hall, 1971.

**(For 2020-21 academic year)**

**FIRST SEMESTER**

**Core Paper - 2**

**Gr – 102. ECONOMIC GEOGRAPHY**

( Effective from the admitted batch of 2015-16)

Unit –I Scope and content of economic geography; relation of economic Geography with other branches of social sciences; Location of Economic activities and spatial organization of economics (primary, secondary and tertiary).

Unit – II Factors of location of economic activities: Physical social, economic and cultural;

Concept of techniques of delimitation of agricultural regions; Von Thunen’s model and its validity in the modern world

Unit – III Classification of industries; Theories of Industrial location-Weber, Losch; Case

 studies of selected industries Iron, Steel and Textile etc.

Unit – IV Transportation and transport cost, accessibility and connectivity; Typology of

 Markets, market networks/ systems in rural and urban areas.

**Unit-V is for assignment.**

**Unit – V Economic development of India, Regional disparities, Impact of green revolution on**

 **Indian Economy, Globalization and Indian economy and its impact on environment.**

**Text Books:**

Wheeler, J.O.et al. Economic Geography. John Wiley, New York, 1995.

Berry, J.L. Geography of Market Centers and Retail Distribution. Prentice Hall, New York, 1967.

Hartshorn, T.N. and Alexander , J.W. Economic Geography. Prentice Hall, New Delhi. 1988.

**References :**

Chatterjee, S.P. Economic Geography of Asia. Allied Book Agency, Calcutta, 1984.

Chorley, R.J. and Haggett, P. (ed). Network Analysis in Geography, Arnold, 1969.

Dreze, J. and Sen, A. India-Economic Development and social opportunity. Oxford University Press, New Delhi, 1996.

Eckarsley, R. (ed). Markets, the state and the Environment t. McMillan, London, 1995.

Garnier, D.J. and Delobez. A Geography of Marketing. Longman, London, 1979.

Hamilton, F.E.l. Spatial perspectives on industrial organization and decision making.John Wiley, New Yord, 1974.

Hamilton, l. (ed) Resources and Industry. Oxford University press, New York, 199.

Hurst, E. Transport Geography – Comments and Reading, McGraw Hill, New York, 1974.

Morgan, W.B. and Muntion, R.J.C. Agricultural Geography, Methuen, London, 1977

Pachuri, R.K .Energy and Economic Development in India. Praeger, New York, 1977.

Robertson, D. (ed). Globalization and Environment. E. Elgar, Co., U.K., 2001.

Rostow, W.W. The stages of Economic Growth. Cambridge University press, London, 1960.

Sing, J. and Dillon, S.S. Agricultural Geography, McGraw Hill India, New Delhi, 1984.

Symons, L. Agricultural Geography, Bell and Sons, London, 1972.

**(For 2020-21 academic year)**

**FIRST SEMESTER**

**Core Paper - 3**

**Gr – 103. GEOGRAPHY OF INDIA AND ANDHRA PRADESH**

( Effective from the admitted batch of 2015-16)

Unit - I Location – Major physiographic divisions – Major river systems – drainage pattern –

 climate and climatic regions of India.

Unit - II Soils – Natural vegetation – Need for conservation of soils and forests. Agricultural types

 and regions – irrigation and power – distribution of food and commercial crops.

Unit - III Power resources – Hydel – Thermal – Atomic – Mineral sources – Major industries, iron

 and steel, ship building, Cement, Cotton, Sugar and Jute.

Unit - IV Population – Distribution an density - growth – trends - problems – urbanization.

 Transport and communication. India’s foreign trade – problems and prospects.

**Unit-V is for assignment.**

**Unit - V Andhra Pradesh – Relief, climate, soils, vegetation, agriculture, irrigation and power,**

 **mineral Wealth and industrial development, population and urbanization.**

**Text Books:**

D.R. Khullar India A Comprehensive Geography, Kalyani Publishers, New Delhi, 2006

C.B. Mamoria. Economic and commercial geography of India, 1984.

**References:**

R.L. Singh. The Regional Geography of India, NGS IX, Banaras, 1968.

O.H.K. Spate and Lear month. India and Pakistan, Methuen, London.

C.B. Mamoria. Geography of India. Sivalal Agarwala & Co., Agra, 1975.

Shrama and Cautinho. Economic and Commercial geography of India.

Shrama, T.C. Technological change in Indian Agriculture, Rawat publication, Jaipur.

Negi, B.S. Geography of India, Kedar Nath Ram Nath, New Delhi.

Alam, S.M. Planning Atlas of Andhra Pradesh.

**(For 2020-21 academic year)**

**FIRST SEMESTER**

**Core Paper - 4**

**Gr – 104. PRINCIPLES OF CARTOGRAPHY**

( Effective from the admitted batch of 2015-16)

Unit – I Introduction to Cartography. Scope and Nature. Basic principles of cartography-

 scales, projections.

Unit – II Cartography as graphic means of Communication. Theory of Visual perception-

 Visual variables. Graphic elements- Clarity and legibility contrast, Figure- ground,

 Balance. Colour and pattern in Cartography.

Unit – III Topography and lettering. Generalization. Compilation process and procedure.

 Map design and layout – Constraints and restrictions in Map design.

Unit – IV Types of maps and their uses. Symbolization. Cartographic techniques for different

 Purposes – Socio economic data, Weather and Climatic data, Physiographic.

**Unit-V is for assignment.**

**Unit – V Computer Assisted Cartography. Cartography and GIS – Data processing, Types of output**

 **products.**

**Text Books:**

Misra, R.P. and Ramesh, A. Fundamentals of Cartography, McMillan Co., New Delhi.

Robinson, A.H. and Sales, K.D. Elements of cartography, john Wiley & Sons Inc.

**References:**

Burrough, P.A. Principles of geographic information systems for Land Resource, Assessment, Oxford University Press, New York, 1986.

Fraser Taylor D.R. Geographic information systems for Land Resource . Pergaman Press, Oxford, 1991. Monk House, EJ., Wilkinson, H.R. Maps and Diagrams, Methuen, London.

Khan , Z.A. Text book of practical geography, Concept, New Delhi, 1998.

Singh, R.L and Dutt, P.K. Elements of Practical Geography, Kalyani Pubnlishers, New Delhi.

Steers, J.A. Map Projections, University of London Press, London