**B.A. Semester – I**

**GEOGRAPHY**

**PAPER-I**

**PHYSICAL GEOGRAPHY**

**UNIT – I**

The nature and scope of Physical Geography ; Origin of the Earth, Geological Time Scale, Earth’s, Interior, Continental Drift Theory (Wegner), Plate Tectonics, Isostasy.

**UNIT – II**

Normal cycle of erosion, Evaluation oflandscapes- Fluvial, Arid, Glacial, Karts and Coastal landscape

**UNIT-III**

Elements of Weather and Climate, Composition and Structure ofthe Atmosphere. World patterns of Atmospheric Temperature, Pressure, and Wind.

**UNIT-IV**

Atmospheric Moisture, and Disturbances, Climatic Classification (Koppen and

Thornthwait ) types, characteristics and World patterns.

**UNIT-V**

Surface relief of Pacific Ocean, Atlantic Ocean, and Indian Ocean. Distribution of Temperature and Salinity of oceans and seas, Currents and Tides, Ocean Deposits and Coral Reefs, and Oceanic Resources.

**Books Recommended:**

1. Barry, R G. and Chorley, R J. (1998): Atmosphere, Weather and Climate. Routledge, London.

2. Bryant, H. Richard (2001): Physical Geography Made Simple, Rupa and Company. New Delhi

3. Bunnett, RB. (2003): Physical Geography in Diagrams, Fourth GCSE edition, Pearson Education (Singapore) Private Ltd.

4. Garrison, T. (1998): Oceanography, Wordsworth Company., Belmont.

5. Lake, P. (1979): Physical Geography (English and Hindi editions), Cambridge University Press, Cambridge.

6.· Lal, D.S. 1993 :Climatology, 3rd edition, Chaitanya Pub. House, New Delhi

7. Leong Goh Cheng (2003): Certificate Physical and Human Geography, Oxford University Press, New Delhi.

8. Monkhouse, F:J. (1979): Physical Geography. Methuen, London

9. Singh, S. (2003): Physical Geography. (English and Hindi editions.). Prayag Pustak Bhawan,· Allahabad;

10. Trewartha, G.T., Robinson, A.H., Hammond, E.H., and Horn, A.T. (1976/1990): Fundamentals of Physical Geography, 3rd edition. MacGraw-Hill, New York.

11. Singh, M.B. (2001): *Bhoutik Bhugol,* Tara Book Agency, Varanasi

12. Strahler, A.N. and Stahler, A.M. (1992): Modern Physical Geography. John Wiley and Sons, New York.

**B.A. Semester – I**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. The nature and scope of cartography.
2. Scale – Definition, Importance, Methods of representation of scale, Conversion of scale – Simple, Comparative & Diagonal.
3. Methods of showing relief – Hachure’s, Contours ; Representation of different land forms.
4. Drawing of profile – Serial, profile

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
4. pkSgku] ih-vkj- % iz;ksxkRed Hkwxksy

**B.A. Semester – II**

**GEOGRAPHY**

**PAPER-II**

**HUMAN GEOGRAPHY**

**UNIT – I**

Defmition and Scope of Human Geography. Man - environment relationship; Determinism, Possibilism, and Probabilism; Human Development Index (HDI)

**UNIT – II**

Classification of Human Races -their Characteristics and Distribution; Human ·

adaptation to environment: Eskimos, Bushman, PigJily, Gond, Masai, and Naga.

**UNIT-III**

Growth, Density and Distribution of World Population and factors influencing Spatial distribution; Over , Under, and Optimum P,opulation; Migration of Population

**UNIT-IV**

Settlements -Urban Settlements: Urbanization, Evolution and Classification, Trends of Urbanization.

Rural settlements: Characteristics, Types and Regional Pattern, Rural Houses in

India - Types, Classification and Regional Pattern.

**UNIT-V**

Issues- Global Warming, Climate Change, Deforestation, Desertification, Air, Water and Soil Pollution.

**Books Recommended:**

1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.

2. De Blij, H.J.(1996): Human Geography: Culture, Society and Space,. 2nd edition. John Wiley and Sons, New Yorlc,

3. Fellman, J. D., Arthur, G., Judith, G., Hopkins, J. and Dan, S. (2007): Human Geography: Landscapes of Human Activities. McGraw-Hill, New York 10"edition.

4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York

5. Huggett, R. J. (1998): Fundamentals ofBiogeography, Routledge, London.

6. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur.

7. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography. 5th edition, Basil Blackwell Publishers, Oxford.

8. Kaushik, S.D. and Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Publication, Meerut.

9. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed.

10. Saxena, H. M. (2000): Environmental Management. Rawat Publications., Jaipur and New Delhi.

11. Singh, K. N. and Singh, J. (2001): *Manav Bhugol.* Gyanodaya Prakashan, Gorakhpur. *2nd* edition.

12.· Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad

13. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd.,London

14. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, New Jersey.

**B.A. Semester – II**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. Diagrams – Simple Bar Diagram, Compound Bar Diagram, wind-vane, Population pyramid.
2. Measurement of central tendency – Mean, Median, Mode
3. Surveying – Basic Principles of Surveying, Chain and Trap Survey – Measurement of area.

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
4. pkSgku] ih-vkj- % iz;ksxkRed Hkwxksy

**In the practical Examination of the following shall be the allotment of time and marks :**

**(i) Lab Work (upto three hours) - 25 marks**

**(ii) Field work (upto two hours) - 15 marks**

**(iii) Practical Record and viva on (i) and (ii) - 10 marks**

(a) The external and internal examiner shall jointly submit marks.

(b) All the candidates shall present at the time of the practical examination, Practical Record/ Project Report and Excursion report signed by the teachers concerned.

**B.A. Semester – III**

**GEOGRAPHY**

**PAPER-I**

**PHYSICAL GEOGRAPHY**

**(CLIMATOLOGY)**

**UNIT – I**

Definition and significance of climatology, Weathers and climate; Elements of weather and climate, Composition and structure of the atmosphere, Atmospheric Temperature : Insolation and Heat balance, Vertical, horizontal and regional distribution of temperature, Inversion of temperature.

**UNIT – II**

Atmospheric pressure : Factors affecting the air pressure, air pressure belt, Shifting of air pressure belt, Pressure gradient and air circulation, Classification of winds-planetary, Mansoon winds, Local winds.

**UNIT-III**

Atmospheric moisture : Humidity, evaporation ; and condensation (forms of condensation); hydrological cycle ; types of precipitation, world pattern of rainfall : regional and seasonal distribution. Thunderstorms.

**UNIT-IV**

Air Mass – Meaning, Origin, Classification of air mass, Distribution of air mass (North America & Asia) Front genesis – Origin, types, frontal zones, Cyclone – tropical and temperature cyclones – origin, characteristics & effects, Tornadoes & Hurricane.

**UNIT-V**

Classification of climate koppen’s, Thornithwaite & Trewartha, Climatic region of world Role of climate in human life ; Atmospheric pollution and Global warming general causes, consequences and measures of control.

**Prescribed books :**

1. Barry, R.G. & Chorley, R.J. Atmosphere, Weather and Climate, Routledge, 1998.
2. Critchfield, H. : General Climatology, Prontice – Hall, New York 1975.
3. Das, P.K. The Monsoons, National Book Trust, New Delhi 1968.
4. Mather, J.R. Climatology, McGraw-Hill, New York, 1974.
5. Patterson, S. Introduction of Meteorology, McGraw-Hill Book Co., London, 1969.
6. Stringer, E.T. : Foundation of Climatology, Surjeet Publications, Delhi, 1982.
7. flag] lafoUnz % tyok;q foKku] olqa/kjk izdk’ku] bykgkckn
8. xkSre] vydk % tyok;q ,oa leqnz foKku] olaq/kjk izdk’ku] bykgkcknA

**B.A. Semester – III**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. Interpretation of weather Maps : Use of Metrological instruments.
2. Representation of climatic data – Hyther graph, Climograph.
3. Map Projections : Definition and classification, Cylindrical projections – simple cylindrical, True cylindrical, equal area cylindrical, Marcator’s projection, Gall’s projection

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
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**B.A. Semester – IV**

**GEOGRAPHY**

**PAPER-II**

**PHYSICAL GEOGRAPHY**

**(OCEANOGRAPHY)**

**UNIT – I**

Nature and scope of oceanography, Relevance of oceanography in earth and atmospheric science. Surface configuration of the ocean floor : continental shelf, Continental slope, abyssal plain, mid-oceanic ridges and oceanic trenches. Relief of Atlantic ocean to pacific ocean and Indian oceans.

**UNIT – II**

Physical and chemical properties of sea water, Distribution of temperature and salinity of oceans and seas, Density of sea water.

**UNIT-III**

Circulation of oceanic waters ; waves, currents – Origin and characteristics, currents of the Atlantic, Pacific and Indian ocean, Tides – Theories of Origin of tides, Types of tides.

**UNIT-IV**

Ocean deposits – Source and classification of ocean deposits, Distribution of ocean deposits (Atlantic, Pacific and Indian oceans), formation of coral reefs – origin of coral reefs Darvin, Mare, Types of coral reefs.

**UNIT-V**

Marine resources – Classification of marine resources – food resources (fisheries marine farming, Ocean ranching, Mineral resources of sea. Conservation of ocean resources, Oceanic pollution.

**Prescribed books :**

1. Davis. Richard J.A. Oceanography. An introduction to the Manne Environment. WmC. Browon Lowa 1986.
2. Lal D.S. : Climatology and Oceanography. Sharda Pustak Bhavan, Allahabad.
3. flag] lafoUnz % tyok;q foKku] olqa/kjk izdk’ku] bykgkckn
4. xkSre] vydk % tyok;q ,oa leqnz foKku] olaq/kjk izdk’ku] bykgkcknA

**B.A. Semester – IV**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. Mapping Techniques : Distribution Maps : Choropleth & Isopleths, Dot Map.
2. Statistical Methods : Quartile : Mean deviation, Standard deviation and Quartile deviation Relative variability and correlation.
3. Surveying – Prismatic Compass Survey : Open and closed traverse, correction of bearing, calculation of interior angles.
4. Surveying – Basic Principles of Surveying, Chain and Trap Survey – Measurement of area.

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
4. pkSgku] ih-vkj- % iz;ksxkRed Hkwxksy

**In the practical Examination of the following shall be the allotment of time and marks :**

**(i) Lab Work (upto three hours) - 25 marks**

**(ii) Field work (upto two hours) - 15 marks**

**(iii) Practical Record and viva on (i) and (ii) - 10 marks**

(a) The external and internal examiner shall jointly submit marks.

(b) All the candidates shall present at the time of the practical examination, Practical Record/ Project Report and Excursion report signed by the teachers concerned.

**B.A. Semester – V**

**GEOGRAPHY**

**PAPER-I**

**GEOGRAPHY OF INDIA**

**UNIT – I**

Locational characteristics, Physical features : Structure, Relief and Physiographic regions, Geology, Drainage system, Climate-Origin of Monsoon.

**UNIT – II**

Natural resources : Soils – types, their distribution and characteristics. Forest – Types, distribution, pattern, Mineral and power resources – Iron-ore, Manganese, Copper, Bauxite, Coal, Petroleum and hydro-electricity.

**UNIT-III**

Agriculture – Major corps – Rice, wheat, sugarcane, tea, Irrigation, Impact of green revolution and agricultural regions; Industries : Iron and steel, Cotton Textile, Cement, Industrial regions of India.

**UNIT-IV**

Population – Growth, Density and Distribution. Trade & Transport, Tourism.

**UNIT-V**

Basis of regional classification of India-Macro, Micro, Me so regions, O.H.P. Spate, Detail of these Ganga Plain region, Marusthali region, Chhota Nagpur Plateau, Coastal region.

**Prescribed books :**

1. Deshpande, C.D. : India – A Regional Interpretation. Northern Book Centre, New Delhi.
2. Singh, Jagdish : India. Gyanodaya, Gorakhpur.
3. Singh, R.L.E. : India – A Regional Geography. National Geographical Society of India. Varanasi, 1971.
4. Sinha, B.N. : Industrial Geography of India. The World Calcutta and Economy. Methuen, London.
5. frokjh] fot; dqekj % Hkkjr dk Hkwxksy] fgeky; ifCyds’ku] eqEcbZ] 2000
6. frokjh] fot; dqekj % Hkkjr dk tula[;k Hkwxksy] fgeky; ifCyds’ku] eqEcbZ] 1997-12-
7. frokjh fo’oukFk % Hkkjr dk HkkSxksfyd Lo:i] f’koyky vkxjk A
8. caly] lqjs’kpan % Hkkjr dk o`gn Hkwxksy] ehuk{kh izdk’ku] esjB A
9. ekeksfj;k prqHkqZt % Hkkjr dk o`gn Hkwxksy

**B.A. Semester – V**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. Map Projection : Conical Projection : One standard parallel, Two standard parallels, Bonne’s Polly conic, Polar Zenithal Projections : Gnomonic, Stereographic and Orthographic.
2. Study and Interpretation of Indian topographical sheets : classification and numbering system, Interpretation of topographical sheets with reference to cultural and physical features.
3. Fundamental of Remote Sensing & GIS.

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
4. pkSgku] ih-vkj- % iz;ksxkRed Hkwxksy

**B.A. Semester – VI**

**GEOGRAPHY**

**PAPER-I**

**GEOGRAPHY OF CHHATTISGARH**

**UNIT – I**

Chhattisgarh : Physical Features : Structure, Physiography, Geology, Drainage, Climate, Soils and Natural vegetation.

**UNIT – II**

Agriculture : Major crops, Land use, Irrigation, Livestock, Water resources – availability and development. Major irrigation projects, Modernisation of agriculture.

**UNIT-III**

Minerals : Iron-ore, Bauxite, Tin and power recourse : Coal, Hydroelectricity of Chhattisgarh Industrial development of Chhattisgarh, Major industries : Iron and steel, Cement, Aluminium, Industrial regions of Chhattisgarh.

**UNIT-IV**

Population – Growth, Distribution and Density of population, social groups, literacy and sex-ratio, Urbanisation.

**UNIT-V**

Major tribes – Gond, Pahadi Korwa, Oram, Kanwar, their habitat, society and economy.

**Prescribed books :**

1. Das, P.K. : The Monsoon. National Book Trust of India, New Delhi.
2. Government of India : The Gazetteer of India. Vol. 1 : The land and people. Publication Divison, New Delhi.
3. Deshpandey, C.G. : India – A Regional Intepretation. Northern Book Centre, New Delhi.
4. Mukherjee, A.B. & A.Aijazuddin, eds. : India-Culture, Society & Economy. Inter India, New Delhi.
5. frokjh] fot; dqekj % NRrhlx<+ dk Hkwxksy] fgeky; ifCyds’ku] eqEcbZ] 1997-12-
6. oekZ] ,y-,y- & NRrhlx<+ dk Hkwxksy] e-iz- xzaFk vdkneh] Hkksiky e/;izns’k

**B.A. Semester – VI**

**GEOGRAPHY**

**PRACTICAL GEOGRAPHY**

1. Scale : Square root scale, Cube root scale, Vernier scale.
2. Diagrams : Circle, Sphere diagram.
3. Plane Table Survey : Basic Principles of Plane table survey, Plane Table surveying including intersection and resection method.
4. Importance of Field work in Geography, Field work and field Report : Physical, social and economic survey of a micro – region & Excursion.

**Prescribed books :**

1. Monk house, F.J. & H.R. Wilkinson : Map and Diagrams, Methuen, London.
2. Singh, L.R. : Practical Geography.
3. 'kekZ] ts-ih- % izk;ksfxd Hkwxksy & jLrksxh izdk’ku
4. pkSgku] ih-vkj- % iz;ksxkRed Hkwxksy

**In the practical Examination of the following shall be the allotment of time and marks :**

**(i) Lab Work (upto two hours) - 20 marks**

**(ii) Field work (upto two hours) - 10 marks**

1. **Field work Report or Excursion Report - 10 marks**

**(iv) Practical Record and viva on (i)+(ii)+(ii) - 10 marks**

(a) The external and internal examiner shall jointly submit marks.

(b) All the candidates shall present at the time of the practical examination, Practical Record/ Project Report and Excursion report signed by the teachers concerned.