

B.A. / B.Sc. GEOGRAPHY FIRST YEAR

SEMESTER -I

(BS101) Paper 1: ELEMENTS OF GEOMORPHOLOGY (4 Credits)

Unit-1:

1. Land and Sea: Formation and distribution.
2. Theories: Isostasy, Continental Drift, Plate Tectonics.

Unit-2:

3. Interior of Earth: Earthquakes, Volcanoes Rocks.
4. Denudation – Erosion, Weathering and Mass-wasting.

Unit-3:

5. Fluvial landforms – Erosion and depositional
6. Aeolian landforms- Erosion and depositional

Unit-4:

7. Karst Topography- Erosion and Depositional landforms
8. Glacial Topography- Erosion and Depositional landforms

Basic Texts:

1. Critchfield (1997): General Climatology, Prentice Hall of India, New Delhi.
2. Strahler A. H. and Strahler A. N. (1971): Physical Geography, Willey eastern, New Delhi.
3. Trewartha (1968): An Introduction to Climate, Mc Graw Hill, New Delhi.

Additional Texts:

1. Tikka R. N. (1999): Physical Geography, Kedarnath & Ramnath & Co., Meerut.
2. Dasgupta and Kapoor (1998): Physical Geography, Chand & Co., Delhi.
3. Lal, D. S. (1996): Climatology, Chaitanya Publishing House, Allahabad.
4. Savinder Singh (2013): Geomorphology, Prayag Pustak Bhavan, Allahabad.
5. Sparks B. W. (1965): Geomorphology, Brill Academic Publishers.

(BS102) Practical-I: ELEMENTS OF MAPPING AND INTERPRETATION

(1 Credit)

1. Types of Maps: Cadastral, Topographical, Atlas, General Maps, Thematic Maps.
2. Construction of scale: simple, diagonal and comparative.
3. Relief features of geological landforms and profile drawing : serial, superimposed, projected and composite.
4. Interpretation of toposheet.

Basic Texts

1. Monkhouse F. J. and Wilkinson H. R. (1968): Maps and Diagrams, Methuen, London.
2. Mishra R. P. and Ramesh A. (1999): Fundamentals of Cartography, Mac Millan, New Delhi.

Additional Texts

1. Gopal Singh (1996): Map Work and Practical Geography, Vikas Publishing House, New Delhi.
2. Singh R. L. and Dutt P. K. (1968): Elements of Practical Geography, Students Friends, Allahabad.
3. Negi B. S. (1998): Practical Geography, Kedarnath and Ramnath, Meerut.

SEMESTER -II

(BS201) Paper II: ELEMENTS OF CLIMATOLOGY & OCEANOGRAPHY **(4 Credits)**

Unit-I:-

1. Atmosphere – Structure and Composition.
2. Insolation – Factors influencing the incidence and distribution.
3. Temperature – Horizontal and Vertical Distribution.
4. Pressure – Influencing factors- High and Low Pressure Areas, Global Pressure Belts.

Unit-II:

5. Winds – Local, Periodic and Planetary.
6. Cyclones – Formation, Distribution and Impacts, Tropical and Temperate.
7. Humidity – Absolute and Relative.
8. Clouds – Types, Formation and Potentials Precipitation, Types, Formation and Distribution.

Unit-III:

9. Submarine relief: Continental Shelf, Continental Slope, Abyssal Plain, Ocean Deeps and Trenches, Mid-Oceanic ridges.
10. Temperature: Horizontal and Vertical Distribution.
11. Salinity: Factors and Distribution.

Unit-IV:

12. Waves & Tides: Types and Formation.
13. Ocean Currents: Types and Factors Responsible - Currents of Atlantic, Pacific and Indian Oceans.
14. Ocean deposits: Types and Distribution.
15. Marine Resources and their economic significance.

Basic Texts:

1. Cole and King (1975): Oceanography for Geographers, E. Arnold, London.
2. Ken Briggs (1985): Physical Geography: Process and System, Holder and Stoughton, London.
3. Rice R. J. (1996): Fundamentals of Geography Addission - Wesley.
4. Sharma, R. C. and Vatal M. (1997): Oceanography for Geographers, Chaitanya Publishing House, Allahabad.

(BS202) Practical-II: Basic Statistics and Weather Map (1 Credit)

1. Sources of data: Classification and Tabulation of data.
2. Central Tendencies – Mean, Median and Mode
3. Measures of Dispersion - Mean Deviation and Standard deviation
4. Correlation- Karl Pearson and Spearman.
5. Weather Map: Weather symbols and Interpretation of Indian daily weather maps (July, October and January).

REFERENCES:

1. Aslam Mohmood: Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi.
2. Singh, L.R. (2006): Practical Geography, Sharada Pustak Bhavan.
3. Gregory, S (1963): Statistical Methods and the Geographer, Longmans, London
4. King, L.J.: Statistical Analysis in Geography, Prentice Hall, Englewood Cliffs, New Jersey.
5. Zamir, A. (2002): Statistical Geography: Methods and Applications, Rawat Publications, Jaipur.
6. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
7. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.

Department of Geography

B.A 2nd year IIIrd semester

Marks: 50

Paper-III: Human Geography

SECTIONS	Unit	Sub – unit	
SECTION-A	Introduction	1	Definition, scope and Importance
		2	Development of Human Geography, Environmental determinism and Possibilism
		3	Alexander von Humboldt, Carl Ritter, Friedrich Ratzel, Vidal de La Blach, Al Masudi, Al Idrisi
SECTION-B	Races of Mankind	4	Classification and Distribution
		5	Man and Environmental relationship
SECTION-C	Population	6	Factors affecting the distribution of population in the world
		7	Growth and Density of population in the world: Population regions
SECTION-D	Human Migration	8	Nature, causes, types and consequences
		9	Internal and international migration
SECTION-E	Human Settlements	10	Origin, growth and distributional pattern
		11	Types – Rural and Urban settlements
		12	Functions and characteristics

REFERENCES:

1. Principles of Human Geography – Huntington, New Delhi Revised Edition, 1987.
2. Human Geography – Majid Hussain, Rawat Publications, Jaipur, 2003.
3. Human Geography – Nellson, Gabler & Vining, New York, 1995.
4. Principles of Human Geography – Vidal – de-la-Blache., Charles E. Merill Publishing Company, 1992
5. Geography of Man's Environment – Strahler A.H. & Strahler A.N., Macmillan Publishing Company, 1992.
6. Introduction to human geography – Dickens and Pits. New York, 1963.
7. Yadav J.P. Population Geography – Anumol Publications, New Delhi – 2004
8. Singh L.R. Fundamentals of Human Geography, Sharda Pustak Bhawan – Allahabad – 2003


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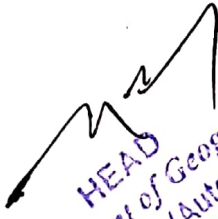
Marks: 25

Practical – III: Basic Statistics & Map Interpretation

1. Central Tendencies – Mean, Median and Mode
2. Measures of Dispersion - Standard deviation and Mean Deviation
3. Frequency distribution of Lorenz Curve
4. Conventional signs of Toposheets
5. Interpretation of Toposheets - Physical and Cultural

REFERENCES:

1. Aslam Mohmood: Statistical Methods in Geographical Studies. Rajesh Publication, New Delhi.
2. Singh, L.R. (2006): Practical Geography, Sharada Pustak Bhavan.
3. Aslam Mohamood: Statistical Method's in Geographical Studies, Rajesh Publications, New Delhi.
4. Gregory, S (1963): Statistical Methods and the Geographer, Longmans, London
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Department of Geography

B.A. 2nd year IVth Semester


Marks: 50

Paper IV: Economic Geography

SECTIONS	Unit	Sub – unit	
SECTION-A	Introduction	1	Definition, Importance and Approaches of Economic Geography
		2	Man and Environment – Study of environmental factors and their influence on the Economic activities
SECTION-B	Soil, Forest, Mineral and Power Resources	3	Primary, Secondary, Tertiary and Quaternary Economic Activities
		4	Soil Types, distribution and conservation ; Forest Resources – Types and Distribution
		5	Distribution, Production and Consumption of Iron Ore, Manganese, Bauxite
		6	Distribution, Production and Consumption of Coal, Petroleum and Natural Gas
SECTION-C	Agriculture	7	Major crops – Rice, Wheat, Cotton, Sugarcane, Coffee and Tea
		8	Animal Husbandry – dairy farming regions
		9	Fishing – Influencing factors – Major Fishing areas – Aqua culture
SECTION-D	Industries	10	Location – Factors affecting industrial location – Weber’s theory of industrial location
		11	Major Industries – Iron and Steel, Cotton Textiles
SECTION-E	Transportation and Trade	12	Transcontinental Roads and Railways
		13	Major Ocean Routes
		14	International Trade – Basis of trade, patterns and trends – WTO

REFERENCES:

1. Guha and Chattoraj: A New Approach to Economic Geography, Pub. Div. Calcutta
2. Khanna and Guptha: Economic and Commercial Geography, New Delhi, 2000.
3. Chowdhari M.R: Economic and Commercial Geography, Rawath Publications, Jaipur (2002)
4. Alexander J.: Economic Geography, New York
5. Jones C.F. & Darkenwald E.B: Economic Geography, New York (1998)
6. Chisolm: Hand Book of Economic Geography, New Delhi, Revised Publication (1998)
7. Khanna and Gupta: World Resources and Resource trade, New Delhi, (1998)


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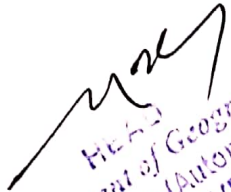
Marks: 25

Practical IV: Map Projections and Map Analysis

1. Map Projections – Introduction, Types, properties and uses
2. Graphic Construction of
 - a) Cylindrical Equal and Equidistant Projection
 - b) Conical (One standard parallel and Two standard parallel)
 - c) Graphic Construction of Zenithal Equal area and Equidistant projection
3. Base Map and study of Map Locations India and Telangana.

REFERENCES:

1. Singh, G (2005): Map work and Practical Geography, Vikas Publication House New Delhi.
2. Singh R.L. (2006): Practical Geography Sharada Pustak Bhavan - Allahabad
3. Misra R.P. and Ramesh A.: Fundamentals of Cartography, Concept Publishing House, New Delhi
4. Singh, R.L.: Elements of Practical Geography, Kalyani Publishers, New Delhi
5. Cuff, D.J. and Mattson, M.J (1982): Thematic Maps: Their Design and Production, Methuen, New York


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Department of Geography
 B.A. 3rd year Vth Semester
Paper V: Geography of India

Marks: 50

SECTIONS	Unit	Sub – unit	
SECTION-A	Physical Aspects	1	Location, Relief and Physiographical divisions; Soils - Types and classification, erosion and conservation
		2	Climate: Temperature, Rainfall, Seasons, Mechanism of Monsoon; Drought and floods-Problems and Management
		3	Forest resources – Types, distribution and wildlife sanctuaries – conservation
SECTION-B	Irrigation and Agriculture	4	Irrigation development - Multipurpose River valley projects – Bhakra Nangal and Damodar Valley project
		5	Agriculture & Allied activities: Cropping patterns, Major Food crops – Rice, Wheat, Cotton, Sugarcane, Tea, Coffee; Changing pattern of agriculture and its impact
SECTION-C	Mineral and Power Resources	6	Mineral Resources: Iron ore, Manganese, Copper and Bauxite
		7	Energy resources - Coal, Petroleum and Natural Gas- Renewable energy resources; conservation and management
SECTION-D	Industries, Transportation and Trade	8	Growth and Development of Industries – Iron & Steel, Cotton, Automobiles, Knowledge based – IT & ITES, Biotech
		9	Pattern of Roadways, Railways, Airways and Major Ports; Trade – Imports&Exports
SECTION-E	Population and Urbanization	10	Growth, density and distribution of population – Demographic Characteristics
		11	Urban development in India – Urban growth - Regional Variations –Concept of Smart Cities

REFERENCES:

1. C.B.Mamoria: Economic and Commercial Geography of India, Publication Div. Calcutta
2. Dubey & Negi: Economic Geography of India, New Delhi
3. Gopal Singh: Geography of India. New Delhi
4. Guha & Chattoraj: A New Approach to Economic Geography of India, Pub. Div, Calcutta (2001)
5. Kamlesh Patiwal: Economic Geography of India, New Delhi, (1996)
6. R.L.Singh: Regional Geography of India, New Delhi, (1998)
7. Kullar, D.R. (2006): India – A Comprehensive Geography

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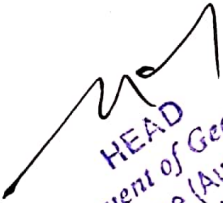
Marks -25

Practical V: Data and Sampling

1. Types of Data
2. Methods of Data Collection
3. Techniques of Data Collection and Field survey
4. Types of Sampling – Simple, Random, Systematic and Stratified Sampling.

REFERENCES:

1. Singh .R.L (2006): Practical Geography Sharada Pusthak Bhavan
2. Aslam Mahmood, Statistical Methods in Geographical studies –Rajesh Publication New Delhi.
3. Geography, S (1963): Statistical Methods and the Geographer, Longman, London
4. Kothari, C.R: Research Methodology – Methods and Techniques
5. Jones, P.A (1968): Fieldwork in Geography, Longman, London
6. Johnson, R.J. (1978): Multivariate Statistical Analysis in Geography, Longman, London



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Paper VI (a): Environmental Geography (Elective)

SECTIONS	Unit	Sub – unit	
SECTION-A	Introduction	1	Meaning, definition, scope and importance of Environmental Geography
		2	Relationship of Environmental geography with other sciences
SECTION-B	Environment	3	Definition, meaning and components of Environment
		4	Biogeochemical cycles – Hydrological cycles, Nitrogen Cycles and Carbon Cycles
SECTION-C	Ecosystem	5	Meaning of Ecology and Ecosystem - Types and functioning of Ecosystems
		6	Producers, Consumers and Decomposers
		7	Food chain, Food web and Ecological pyramids
SECTION-D	Bio – diversity and its conservation	8	Meaning, Definition of Genetics and Species
		9	Biomes – Meaning and types, distributions of major biomes in the World
		10	Loss of Biodiversity and Biodiversity hotspots
SECTION-E	Environmental Pollution	11	Air, Water, Soil and Noise pollution - Causes, effects and control measures
		12	Natural Hazards and Disasters: Global Warming and Climate Change, , Ozone layer depletion

REFERENCES:

1. Saxena H.M.: Environmental Geography, Rawar Publications, Jaipur
2. Sinha S.P. : Environmental Geography, New Delhi, (1999)
3. Strahler A.N. & Strahler A.H.: Geography of mans Environment, John Willey, New York, (1986)
4. P.D.Odum: Fundamentals of Ecology, WB Saunders Co, London, (1971)
5. Robinson A: Bio Geography, New York, (1968)
6. Katyal T: Environmental Pollution, New Delhi, (1998)
7. Singh J & Singh D.N: An Introduction to our Earth and Environment New Delhi, (1998)


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Paper VI B

CBCS

Department of Geography

B.A. 3rd year VIth Semester

Marks: 50

Paper VI (b): Geography of Telangana (Elective)

SECTIONS	Unit	Sub – unit	
SECTION-A	Physical Aspects	1	Location, Relief and climate
		2	Soils – Types and classification, erosion and conservation
		3	Forest resources – Types, distribution and wildlife sanctuaries – conservation
SECTION-B	Irrigation and Agriculture	4	Types - Tanks, Canals and Wells; Major Projects – Nagarjunasagar, Srisailem and Sriram Sagar- Drought Vulnerability, Mission Kakatiya
		5	Agriculture & Allied activities: Cropping patterns, Major Food crops – Rice, Maize and Jowar, Commercial Crops – Cotton and Sugarcane, Groundnut and Oil seeds
SECTION-C	Mineral and Power Resources	6	Iron ore, Limestone
		7	Coal, Renewable, Non-renewable energy resources
SECTION-D	Industries and Transportation	8	Growth and Development of Industries – Power, Cement, Pharma, Knowledge based – IT&ITES, Biotech
		9	Patterns of Roadways, Railways, Airways
SECTION-E	Population and Urbanization	10	Growth, density and distribution of population – Demographic Characteristics
		11	Urban growth and pattern - Major Urban centres – Hyderabad and Warangal

REFERENCES:

1. Mahendra Dev S, C.Ravi, M.Venkatnarayana (2009): Human Development In Andhra Pradesh – Experiences, Issues and Challenges, CESS, Hyderabad-16.
2. Rao, Ch and Mahendra Dev S (eds.) (2003): Andhra Pradesh Development: Economic Reforms and Challenges, CESS, Hyderabad-16
3. P.Padmanabha Rao, V.Vidyanath and R.Rammohan Rao (eds.) (1988): Resource Regions of Telangana – Development of Resource Base Pattern, Problems and Perspectives, Gian Publication, New Delhi
4. Planning Atlas of Andhra Pradesh, Department of Geography, Osmania University
5. Economic Survey of Andhra Pradesh, Planning Department
6. Government of Andhra Pradesh Planning Department: Perspective Plans for Telangana, Coastal Andhra and Rayalaseema in (1997)
7. Simhadri, S. & P.L. Vishweshwar Rao, : Telangana Dimensions of Underdevelopment, Center for Telangana Studies
8. Fifty years of Andhra Pradesh (1956-2005): Centre for Documentation, Research and Communications (2008)
9. Venkat Ram Reddy and Kosal Ram: Multilevel Planning of Andhra Pradesh, Published by CESS, Hyderabad.


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Practical VI: Weather Instruments and Weather Reports

1. Introduction of Weather Instrument
2. Types of Weather Instruments
3. Introduction of Weather Report
4. Interpretation of weather Maps.
5. Study of Indian weather reports

REFERENCES:

1. Misra R.P & Ramesh A (1989): Fundamentals of Geography, Concept Publication Company, New Delhi
2. Indian weather Reports
3. Robinson, A.H. (1982): Elements of Cartography, John Willey and Sons, New York
4. Singh, R.L (1994): Elements of Practical Geography, Kalyani Publishers, New Delhi
5. Singh, G (2005): Map work and Practical Geography, Vikas Publishing House, New Delhi
6. Negi B.S.: Practical Geography, Kedarnath and Ravinath Publishers, Meerut


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Department of Geography

B.A. 3rd year 6th Semester Marks: 50Paper – VII: Introduction to Geo-Informations

SECTIONS	Sub – unit	
Section A	1	Basic Component of G.I.S & G.I.S Functions
	2	Data Base Structures – Spatial and Attribute Data
Section B	3	Input of Data – Devices, Mechanisms and Data errors
	4	G.I.S Applications
Section C	5	Energy flow from source to Sensor – Energy interaction
	6	Types of Satellites – Characteristics of I.R.S Sat elite
	7	Application of Remotely sensed data
Section D	8	Photographic Remote sensing – Types of Aerial Photographs
	9	Principles of Photo – Interpretation
SECTION-E	10	GPS Survey – Advantages in relative to conventional survey
	11	Use of GPS
	12	Components of Remote Sensing

REFERENCES:

1. Kang tsung Chap (2003): Geographic information systems. Tata Mc Graw Hill New Delhi.
2. Lillisand T.M. and R.W. kiefer (1997): Remote sensing and Image Inter pretion, John wiley and sons, New York.
3. Umesh Kumawat (2012): Geographical Information System – Land Administration for Sustainable Development – Arise Publishers and Distributors – New Delhi
4. Panda B.C. (2005): Remote Sensing – Principles and Applications, Viva Books Private Limited, New Delhi.
5. Shahab Fazal (2008): GIS Basics – New Age International Puboishers
6. Siddiqui M.A. (2009): Introduction go Geographical Information Systems – Sharda Pustak Bhavan, Allahabad



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Practical VII: COMPUTER BASICS AND GIS

1. Types of Computers
2. Computer Components – Input, Output and Storage Devices
3. Uses of Computers in Geography (Word, Excel and Power point)
4. Principles of Arial photography and Remote Sensing
5. Visual Interpretation of Land use types from satellite imagers
6. Google Maps

REFERENCES:

1. Kang Stung Chap (2003): Introduction to Geographic information systems. Tata Mc Graw Hill Publications, New Delhi.
2. Clarke Keith (1999) : Gulting started with Geographic information systems. Prentice Hall, New Jersey
3. Lillisand T.M. and R.W. kiefer (1997) :Remote sensing and Image Inter pretion, John wiley and sons, New York.
4. Sonka Milan: Vaclav Hlavac and Roger Boyle (2008): Digital Image Processing and Computer Vision – engage Learning Canada by Nelson Education Limited
5. Paul M. Mather (2004): Computer Processing of Remotely – Sensed Images – John Wiley and Sons, Limited, England
6. Taylor D.R.F.: GIS – The Micro-Computer and Modern Cartography, Pergamum Press, Oxford
7. Dickinson, G.C (1969): Maps and Air photos, Edward Arnold Ltd. London


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Practical VIII: Field Survey and Research Report

1. Surveying -
 - a) Chain Survey
 - b) Prismatic Compass
 - c) Plane table survey
2. Field Study Report - Village / Urban study, Socio – economic or Physio graphic study- Educational Tour, Observations, Measurements, Interviews, data collection, data Analysis, Report writing
Ex: a) Market Survey b) Network Survey c) Service Utility Survey

REFERENCES:

1. Monkhouse, F.L. and Wilkinson M.R (1968) Maps and Diagrams, Methuen London
2. Robinson, A.H (1995) Elements of Cartography, John Willey and Sons, New York
3. Gopal Singh (1996) Map Work and practical Geography, Vikas Publishing, New Delhi
4. Jones, P.A (1968): Field work in Geography, Longman, London
5. Misra R.P. & Ramesh A (1989): Fundamentals of Cartography, Concept Publishing Company, New Delhi


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From . 2019-2020

B.A. / B.Sc. GEOGRAPHY FIRST YEAR

SEMESTER -I

(BS101) Paper I: ELEMENTS OF GEOMORPHOLOGY (4 Credits)

Unit-1:

1. Land and Sea: Formation and distribution.
2. Theories: Isostasy, Continental Drift, Plate Tectonics.

Unit-2:

3. Interior of Earth: Earthquakes, Volcanoes Rocks.
4. Denudation – Erosion, Weathering and Mass-wasting.

Unit-3:

5. Fluvial landforms – Erosion and depositional
6. Aeolian landforms- Erosion and depositional

Unit-4:

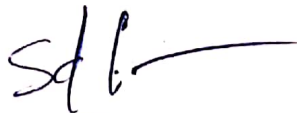
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4. Savinder Singh (2013): Geomorphology, Prayag Pustak Bhavan, Allahabad.
5. Sparks B. W. (1965): Geomorphology, Brill Academic Publishers.


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