

SYLLABUS

**Sridev Suman Uttarakhand State University
Badshahithaul, Tehri, Garhwal, Uttarakhand, India**

B.A./B.Sc. Geography

03 years Annual Examination System

(Effective from academic session-:2019-2020)

Syllabus Committee:



**Dr. Ved Prakash, Convener
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Pandit Lalit Mohan Sharma,
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University Campus, Rishikesh**

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Summary of the Syllabus

Sri Dev Suman Uttarakhand State University

Badshahithaul, Tehri Garhwal

B.A./B.Sc. Geography

03 Years Yearly System

(Effective from Academic Session: 2019-2020)

B.A./B.Sc. Geography

Course for B.A./B.Sc. Part I, Part II and Part III Degree examinations in Geography shall be effective from the examinations of 2019-2020 respectively.

The three-year undergraduate examination in Geography will be conducted in three parts as under:

Part I: B.A./B.Sc. Part I Examination

Part II: B.A./B.Sc. Part II Examination, and

Part III. B.A./B.Sc. Part III Examination

The B.A./B.Sc. part I and Part II examinations in Geography will comprise two theory papers each and one practical examination each theory paper will be of three hours duration and will carry 75 marks as the maximum marks. The practical examination will be of Three hours) and will carry 50 marks as the maximum marks for B.A./B.Sc. Part I , Part II & Part III. The practical examination will be conducted by one internal and one external examiner.

The details of theory papers and practical examination courses are given below.

Note: in each Part I, II and III theory papers shall be consist of 75 Marks.

Distribution of Marks.

	Que.	Mark.
1. Objective Type Questions	10	x 01 = 10 (Compulsory)
2. Short Answer type question (4 out of 6)	04	x 05 = 20
3. Long Answer type question (3 out of 7)	03	x 15 = 45
		<hr/>
		Total=75

B.A./B.Sc. Part-I

Paper No.	Name of the Paper	B.A.		B.Sc.	
		Theory	Paper Total	Theory	Paper Total
Paper-I	Physical Geography	75	75	75	75
Paper-II	Human Geography	75	75	75	75
Paper-III	Practical	50	50	50	50
Total		200	200	200	200

B.A./B.Sc. Part-II

Paper No.	Name of the Paper	B.A.		B.Sc.	
		Theory	Paper Total	Theory	Paper Total
Paper-I	Economic Geography	75	75	75	75
Paper-II	Geography of India.	75	75	75	75
Paper-III	Practical	50	50	50	50
Total		200	200	200	200

B.A./B.Sc. Part-III

Paper No.	Name of the Paper	B.A.		B.Sc.	
		Theory	Paper Total	Theory	Paper Total
Paper-I	Geography Thought	75	75	75	75
Paper-II	Environmental Geography or Regional Geography of the world.	75	75	75	75
Paper-III	Practical	50	50	50	50
Total		200	200	200	200

Sri Dev Suman Uttarakhand State University

Badshahithaul, Tehri Garhwal

B.A./B.Sc. Part-I

Physical Geography

Paper-I

Note: *This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.*

UNIT – I

Lithosphere (A) : Nature and Scope of Physical Geography, Geological Time Scale Origin and age of the Earth, Origin theory of earth by Kant, Jeans & Jeffreys and Big Bang, Concept of Biosphere.

UNIT – II

Lithosphere (B) Forces of the earth : Earthquakes and Volcanoes Rocks their origin, classification and characteristic; Earth movements-Folding and faulting.

UNIT – III

Lithosphere (C) : Weathering and Erosion : Cycle of Erosion by Davis and Penck: Drainage Pattern, Evolution of Land forms-Fluvial, Arid, Glacial, Karst and Coastal landscapes.

UNIT – IV

Atmosphere: Composition and Structure of atmosphere : Insolation; Horizontal and Vertical distribution of temperature; Atmosphere pressure and winds; and anti-cyclones, Humidity precipitation and rainfall types, Classification of world climates, world climatic regions by Koppen.

UNIT – V

Hydrosphere: Surface configuration of the ocean floor, continental shelf continental slope, abyssal plain, ridges mid-oceanic deep and benches, composition of marine water-temperature and salinity, Circulation of Ocean water, Waves, Currents and Tides, Corals reefs.

Book Recommended :-

- Strahler, AN and Strahler, A.H. : Modern Physical Geography
- Barry, R.G. and Chorley, R.J. Atmosphere, Weather and Climate
- Trewartha, G.T. Elements of Physical Geography
- Savindra Singh : Bhautik Bhoogol
- R.C. Sharma and M. Vatal : Oceanography for Geographers-Chaitanya Publishing House, Allahabad.
- Husain. M : fundamentals of Physical Geography Rawat publication, Jaipur.
- Lal, D.S. climatology (Eng./Hindi)
- Singh. J. and Singh, K. N. Bhautik Bhoogol (Hindi)
- Agarwal, K.M.L. Bhautik Bhoogol (Hindi)
- Tiwari, A.K. Jalva Vijan Ke mool Tatva-Rajashtan Hindi Grantha Academy, Jaipur
- Prasad and Nautiyal Rajesh Physical Geography Sharma Pustak Bhawan, Allahabad.

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B.A./B.Sc. Part-I

GEOGRAPHY

PAPER – II : HUMAN GEOGRAPHY

Note: *This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.*

M.M. 75

UNIT – I

Concept and Nature : Meaning, Scope and Development of Human Geography; Man-Environment relationship-Determinism, Possibilism, Neo-determinism, Probablism, Basic Principles-Principals of Activity of change, Principal of Terrestrial unity or whole.

UNIT – II

Distribution of Population : Population growth, Distribution and Density, world patterns; global migration causes and consequences.

UNIT – III

Human Settlements : Origin, types and patterns (Rural-Urban) characteristics size and distribution of Habitat, Economy and Society of World Major tribes, House types and their distribution with special reference to India.

UNIT – IV

Society and Culture : Races of the word special reference-Negroid, Mongoloid and Caucasian, Evolution of man Australopithecus, Homo Erectus, Homo sapiens, Man's spread over the earth during the Pleistocene; Cultural Diffusion, Social groups and Organizations; religious groups in the world, Cultural realms.

UNIT – V

Economy and Technology : Evolution of Human technology, Stages of Economic Development and Sequence of technological growth and human occupancy : Palaeolithic to industrial, Primitive Economics-Food gathering, Lumbering, Hunting, Fishing and Primitive agriculture. Later major innovations and their impact.

Book Recommended :-

Spencer, J. E. and Thomas, W.L.	:	Introdcing Cultural Geography
Thomas, W.L. (ed)	:	Man's Role in Changing the Face of the Earth
Peripillou	:	Human Geography
Smith, D.M.	:	Human Geography – A Welfare Approach
Forde, C.D.	:	Habitat, Economy and Society
Dicken, S.N. and Pitts, E.R.	:	Introduction to Human Geography
Kaushik, S.D.	:	Manav Bhoogol (Hindi)
Prasad, Gayatri	:	Sanstritik Bhoogol (Hindi)
Mamoria, Shishodia	:	Manav Bhoogol (Hindi)

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B.A./B.Sc. Part-I

PRACTICALS

- Unit I** Scale- Definition and importance, construction of scale-comparative diagonal and Venire Methods of Enlargement and Reduction a maps and measurement of distance
- Unit II** Projection; general principles, classification, construction of conical projection with one and two standard parallel, bonnes, cylindrical, Simple and Equal area, Mercaters and polar zenithal equal area map projection.
- Unit III** Topographical Maps- Series, Index numbering scale and conventional signs. Interpretation of any one 1/50000 topographical sheet presenting plain and mountain area with special reference to recognition of relief features, land use roads settlements pattern, drainage characteristics and contour.
- Unit IV** Methods of showing relief; Hachure, shading contours & layer tints, representation of following relief features by contours- hill, saddle, plateau, Cliff, water fall, U and V shaped valley.
- Unit V** Type of slope concave, convex, gentle and undulating gradient, intervisibility

Division of marks:

Lab Work-one question from each unit with internal

Choice (Duration-Three hours)	40
Viva-Voce & Sessional records	10

Books Recommended

1. Monkhouse, F.J. : Maps & Diagrams.
2. Robinson, A.H: Elements of Practical Geography.
3. Singh, R.L. Elements of Practical Geography.
4. Mishra, R.P. and Ramesh, A: Fundamentals of Cartography.
5. Singh, L.R. & Singh, R.N. Map work and Practical Geography (Eng./Hindi)
6. Sharma, J.P. Practical Geography (Hindi)
7. Lal Hira: Prayogatmak Bhoogol Ke Adhar (Hindi)
8. Tiwari, R.C. ; Tripathi, Sudhakar: Abhinav Prayogic Bhoogol.

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Badshahithaul, Tehri Garhwal

B.A./B.Sc. Part-II

GEOGRAPHY

PAPER – I : ECONOMICS GEOGRAPHY

Note: *This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.*

M.M. 75

UNIT – I

Nature, scope and development of Economics Geography : Major concepts in Economic Geography-Economic landscapes, stages of Economic development, typology on economic activities (primary, secondary, tertiary, quaternary), Resources-concept and classification, resource utilisation.

UNIT – II

Natural Resources: Soil types and distribution, forest types and distribution water resources, mineral resource- Iron, Magnees, Boxits and Gold, Marine resources.

Sources of Power – Coal, petroleum and hydro-power, resource-solar and wind energy.

UNIT – III

Agriculture and Land Use : Major crops, (Rice, Wheat and Maize), commercial crops (Tea, Cotton, Rubber), Agricultural regions of the world (with special reference to U.S.A. China)

UNIT – IV

Industrial Development : Locational factor of industries, webers theory, manufacturing industries-Iron and steel, textile, ship building, sugar industry, chemical industries, Auto mobile industries, paper industries, Major Industrial region (U.S.A., USSR and Japan).

UNIT – V

Trade and Transport : Means of transport, Continental railway, Sea routs, International air ways.

Changing pattern of International trade, major trade organization and trade blocks (EEC, ASEAN, NAFTA, OPEC and EFTA)

Book Recommended :-

- Allexander, J.W. Economic Geography.
- Robinsn, A.H. Jones, C.F. and Darkenwarld G.G. Principles of Economic Geography.
- Boesh, Hans, A Geography of World Economy.
- Bengston and Reyen, Fundamentals of Economic Geography.
- Zimmerman, E.W. Introduction of World Resources.
- Chisholm, M., Modern World Development- A Geographical Perspective.

Sri Dev Suman Uttarakhand State University

Badshahithaul, Tehri Garhwal

B.A./B.Sc. Part-II

GEOGRAPHY

PAPER – II : GEOGRAPHY OF INDIA.

Note: *This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.*

Unit I– India in the context of Asia. India is a sub-continent, geological structure, physical divisions, physiographic regions, drainage systems, climate: concept of monsoon, seasonal variations, climatic divisions of India.

Unit II- Natural resources India- land and Soil, forest, water, mineral and power distribution and production in India.

Unit III- Agriculture and industrial development, agriculture main characteristic and problems, irrigation , mechanization and green evolution, recent trendy of agriculture, Agricultural regions. Locational factors and industrial development, major industries from textile, cement, sugar, paper and automobile, industrial region of India.

Unit IV- Population growth, distribution, density, demographic structure; Urbanisation with special reference to post-in dependence period:

Transport and Trade Development Transport network, Railway Zones, road development and airline routes: Foreign trade- Salient features, recent trends and trade, major ports.

Unit V- Regional disparities and development in India, Major issues and planning of some problem areas- Flood prone areas, Drought prone areas and Tribal areas. Planning regions. Regional divisions and detailed geographical study of Uttarakhand

Books Recommended:

1. Spate, O.H.K. & Learn Month, A.T.A : India and Pakistan
2. Singh, R.L. (ed) : India-A Regional Geography
3. Sen Gupta, P. : Economic Regions and Regionalization of India.
4. Mitra, Ashok : Levels of Economic Development of India.
5. Singh, J. : India-A Comprehensive Systematic Geography
6. Tiwari, R.C. : Geography of India.
7. Verma R.V. : Geography of India (Hindi)
8. Bansal S.C. : Geography of India (Hindi)
9. MkWO ekeksfj;k] MkWO flksfn;k % Hkkjr dk Hkwxksy

Sri Dev Suman Uttarakhand State University
Badshahithaul, Tehri Garhwal
B.A./B.Sc. Part-II
GEOGRAPHY PRACTICALS

S.No.	Topics	Marks
Unit-I	Primary and secondary data and their sources, methods of primary data collection, classification of statistical data and tabulation. Graphical representation and interpretation of-Freque curves , histogram and Polygon.	10
Unit-II	Measures of Central Tendency-Mean, Median, Mode, Measures of dispersion- standard Deviation. Coefficient of correlation-Karl Pear sons and spearman methods. Scatter Diagrams.	10
Unit-III	Cartographic Representation of Statistical Data a) Graphs-Line graph, Band Graph, Hythergraph and Climograph b) Diagrams-Circle, Wheel, Pyramid, . c) Distribution of Population- Dot method and Choropleth method.	10
Unit –IV	Representation of Weather elements, Reading of weather map. Preparation of weather map through given weather summaries. Remote Sensing data Produds Aerial Photographs, Satellite imagery difference between them, indexing of aerial photographs type so digital data.	10
	Record and Viva-Voce	10

Division of mares- (A) Lab Work: One Question from each unit with internal choice, Duration 02 Hours

10x4 = 40

(B) Viva-Voce & Sessional Records

5+5 = 10

Recommended Books:

1. Singh, R.L.:- Elements of Practical Geography.
2. Bygott:- Practical Geography.
3. Hiralal:- Navin Prayogatmac Bhoogol
4. P.R. Chauhan:- Prayogatmac Bhoogol
5. R.C. Tiwari:- Prayogatmac Bhoogol
6. Shrivastava, V.K. and Prasad, Mahatam:- Bhoogol Me Sankhikiya Vidhiyan
7. Gupta K.K. and Tyagi V.C., 1992: Working with Maps, Survey of India, DST, New Delhi.
8. Sharma J.P., 2010; Prayogic Bhugol, Rastogi Publisher.
9. Singh R.L., 1998: Prayogic Bhoogol Ki Rooprekha, Kalyani Publications.
10. Steers J.A., 1965: An Introduction to the Study of Map Projections. University of London.

Sri Dev Suman Uttarakhand State University
Badshahithaul, Tehri Garhwal
B.A./B.Sc. Part-III
Paper I Evolution of Geographical Thought

Note: *This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.*

Unit I Definition, nature and scope of geography, changing philosophy of geography, Geography as an interdisciplinary science, geography as social science, geography as a synthesizing science; explanations in geography, branches and sub branches of geography, basic concepts of geography, distributions, relationships, interaction, area differentiation and spatial organization.

Unit II Dichotomies in Geography: Physical Vs human, systematic Vs regional, approaches to the study of geography- areal differentiation, landscape, location and ecology. Development of Geography in the first half of the 20 the century.

Unit III Contributions of Greek and Roman Geographers- Ptolemy and Strabo, Arab Geographers, Contribution of Geographical knowledge in ancient and medieval India, Renaissance in Geography, Discoveries and inventions, contribution of Taylor, Immanuel Kant.

Unit IV German, French and Angelo American. Humbolt, Ritter, Ratgel Davis E.C. Semple. Blash Isaiah

Unit V Geography in India (after independence); Recent trends in Geography and Modern Geographical school of thoughts- landscape, ecological and locational

Selected Readings

1. Dickenson R.E.– The makers of Modern Geography–Rutledge and Kegan London.
2. Freeman T.W.–A Hundred years of Geography, London.
3. Jones and Martin–All Possible World-A history of Geographical Ideas. Odessey. Indianapolis (USA)
4. Halt Jensen A.– Geography- its history and concepts. Harper and Raw London.
5. Dixit R.D.–Geographical Thought–A Contextual History of Ideas. Prentice Hall, New Delhi.
6. Kaushik S.D.–Bhaugolik Vichardharayen (Hindi)– Sahitya Bhawan Pub. Agra.
7. Hussain Majid–Evolution of Geographical Thought (English and Hindi) Rawat Publication Jaipur.
8. Taylor G. Geography in Twentieth Century: London.

Sri Dev Suman Uttarakhand State University
Badshahithaul, Tehri Garhwal
B.A./B.Sc. Part-III
PAPER II Environment, Geography

Note: This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.

- Unit I** Concept of Environment, Elements of Environment, Concepts of Ecology and Ecosystems and its Structure, Tropic level and food chain, Function of Ecosystems, Man environment relationship.
- Unit II** Environmental Degradation-Concept, cause and consequences, Economic Development and Environmental Crisis, Acid Rain, Greenhouse effect, ozone and layer depletion, impact of Growth of population, industrialization, technology and consumerism of Environment.
- Unit III** Cause and Consequences of Deforestation, Soil Erosion, Energy Crisis, Climatic changes due to Environmental pollution and deflation, biodiversity global warming
- Unit IV** Natural Disasters and Disaster, Management-meaning and concept natural hazards and classification, (natural and man made Special reference to India. Disaster mitigation and preparedness.
- Unit V** Environmental conservation and management- concept and significance, programme and policies of global, national and Regional level, Environmental, impact Assessment concept of Eco-Development.

Recommended Books:

1. Allen, P.D.:- Environment & Development
2. Gerasimov: Ecology & Geography
3. Kayastha, S.L.:- Fundamentals & Environmental Studies
4. Khushoo, T.N. :- Environment and Sustainable Development of India.
5. Singh, J. :- Vatavaran Niyojan aum Samvikas
6. Singh, Savindra; Environmental Geography (Hindi& English)
7. Shrivastava, V.K. & Rao, B.P. :-Paryavaran Evam Paristhitiki
8. Nautiyal, Rajesh, Prasad Gayatri, paryavran Bhoogal

Sri Dev Suman Uttarakhand State University
Badshahithaul, Tehri Garhwal
B.A./B.Sc. Part-III
Paper-II Regional Geography of World.

Note: This question paper consists of three section 'A', 'B' and 'C' all question of section 'A' are compulsory. Attempt any four questions each from section 'B' and attempt any three question from section 'C' respectively.

- Unit I** Systematic Vs Regional Geography, Concept of Region in Geography, Types and classification of Regions (Formal and Functional) Criteria of delimitation and characteristics of Natural, Cultural and Economic.
- Unit II** Physical and Cultural Structure of the World: Continents and Island, mountains, rivers, forest and climate. Culture aspects-Religion, distribution, & Population. Development and Developing world.
- Unit III** Asia in the context of World; Structure; relief; drainage; climate; natural vegetation and soils; spatial distribution of population; economic base; regional studies of south-east, east and west Asia.
- Unit IV** Europe: Physical, economic and demographic characteristics; regional studies of British, Eastern, Western and Mediterranean realm.
- Unit V** North/South America and Australia: Physical, economic and demographic set up; Regional studies of USA, Canada, Brazil and Australia.

Books Recommended:

1. R. Hartshorne: Perspective on Nature of Geography.
2. R. Minshull: Regional Geography- Theory and Practice.
3. G.B. Cressey: Asia's land and people.
4. W.G. Lant, O.H.K. Spate and C.Fisher: Changing Map of Asia.
5. N. Ginsberg (ed): The Pattern of Asia.
6. J Kole: A Geography of the World's Major Regions, Routledge, London, 1996.
7. H.J. Deblij: Geography: Regions and Concepts, John Wiley, New York, 1994.
8. R.H. Jakson & L.E. Hudman: World Regional Geography: Issues for Today, John Wiley New York, 1991.
9. G.H. Minshull: Western Europe, odd ard & Stoughton, NY. 1984.
10. J.H. Patterson: Geography of Canada and the United States, Oxford University Press, 1985
11. J.P. Kole: Latin America-Economic and Social Geography, Poutterworth, USA, 1975
12. S.P. Dickonson et al: The Geography of the Third World, Routledge, London, 1996.

Sri Dev Suman Uttarakhand State University

Badshahithaul, Tehri Garhwal

B.A./B.Sc. Part-III

PRACTICALS

Unit I	Geological maps Geological map- Representation of rock outcrops, bedding planes, dips and strikes, drawing of cross sections and determination of dip angles and bed thickness, Interpretation of Geological Features.	10
Unit-II	1-Survey of given area and plotting the same by Plane Table-Radiation and Intersection methods of Indian Clinometers	10
Unit-III	Survey of Given Area and Plotting the same by Prismatic compares preparation of Map by open and closed traverse (Field book, correction of bearing and removal of closing error)	10
Unit-IV	The students shall be taken out on a field survey at any one place for about three days. They will be required to conduct survey of the socio-economic landscape of the concerned area and write a detail report on the basis of data so generated.(Designing the field Report-Aims and objectives. Methodology, Analysis, Interpretation and Writing with Maps & Diagrams the Project Report)	10
C-	Practical Records Report & Viva-Voce	10

Recommended Books:

All the Books which are recommended for B.A. Part I & II

8-Paper II Geography of India.

Note: This question paper consists of three sections 'A', 'B' and 'C' all questions of section 'A' are compulsory. Attempt any four questions each from section 'B' and 'C' respectively.

Unit I Structure, relief and drainage; climate origin of monsoon, droughts and floods, climatic classification by Köppen and Thornthwaite; soil types and distribution, soil erosion and conservation; forests-types and their economic utilization.

Unit II Major minerals (iron ore, mica, Copper, manganese, bauxite and atomic minerals)- distribution, production and utilization, distribution and production of coal, mineral oil and Hydro power; irrigation, agriculture- trends and problems, dry land agriculture, agricultural regions, green and white revolution and agro-climatic regions.

Unit III Industrial growth and development; industrial localization with reference to iron and steel, cotton, textile, sugar, cement and chemical and paper industries, Industrial regions; population- density, distribution and growth trends and problems; road, rail and air transport; inland waterways, foreign trade.

Unit IV: Trends of urbanization, urban problems, urban slums, urban policy, regional disparities in economic development, planning regions, multi-level planning bases of India federalism, Environmental pollution in India, Geography of Uttarakhand and Region.

Books Recommended:

1. R.L. Singh (ed.): India: A Regional Geography, NGSI, B.H.U., Varanasi 1971.
2. T.C. Sharma and O. Coutinho: Economic and Commercial Geography of India.
3. B.N. Sinha: Industrial Geography of India.
4. O.H.K. Spate and A.T.A. Learn month: India and Pakistan.
5. D.N. Wadia: Geology of India.
6. R.C. Tiwari, Geography of India, Prayag Pustak Bhawan, Allahabad.
7. D.R. Khullar: India: A comprehensive Geography, Kalyani Publishers, Ludhiana.
8. India Reference Annual 2006, Publication Division, Govt. of India, New Delhi.
9. Ram Chandra Tiwari: Bharat Ka Bhoogol, Prayag Pustak Bhawan, Allahabad
10. C.B. Marmoria: Bharat Ka Bhoogol, Sahitya Bhawan, Agra.
11. Alka Gautam: Bharat Ka Bhoogol Sharda Pustak Bhawan, Allahabad.
12. Bharat 2006: Publication Division, Bharat Sarkar, New Delhi.

SYLLABUS

**Sridev Suman Uttarakhand State University
Badshahithaul, Tehri, Garhwal, Uttarakhand, India**

M.A./M.Sc. Geography

Semester System

(Effective from academic session-:2019-2020)

Syllabus Committee:–



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Department of Geography
Pandit Lalit Mohan Sharma,
Sridev Suman Uttarakhand
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**Dr. D.D. Chauniyal, Member
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