

SCHEME OF EXAMINATION
MASTER OF ARTS (GEOGRAPHY)
TWO YEAR PROGRAMME (ANNUAL)
2011

Note:

1. Examiner is required to set 10 questions covering whole syllabus of the paper and the candidates are required to attempt any 5 questions in all. All questions carry equal marks.
2. Internal assessment marks shall be given on the basis of marks secured by the candidate in the Descriptive Examination to be conducted by the respective study centre. Study centres are required to keep the record of the descriptive examination with them for inspection by the University. The marks of Internal Assessment must be submitted to the University before the termination of the University Examination in the concerned subjects. In the event of non receipt of the Internal Assessment Marks, the theory marks secured by the candidate shall be proportionately enhanced.

First Year (Previous)

Paper	Nomenclature	External	Internal
DEMGEO-101	Geomorphology	70	30
DEMGEO-102	Climatology and Bio-Geography	70	30
DEMGEO-103	Resource Geography (with special reference to India)	70	30
DEMGEO-104	Population Geography	70	30
DEMGEO-105	Practical:- i. Lab. Work test ii. Record and Viva-voce on Lab work Unit-I, Unit-II, Unit-III – Field Report and Viva-voce	70	30

Second Year (Final)

Paper	Nomenclature	External	Internal
DEMGEO-201	Modern Geographical Thought	70	30
DEMGEO-202	Research Methods and Quantitative Techniques in Geography	70	30
DEMGEO-203	Political Geography	70	30
DEMGEO-204	Social Geography	70	30
DEMGEO-205	Practical:- i. Lab. Work test ii. Record and Viva-voce on Lab work Unit-I, Unit-II, Unit-III – Field Report and Viva-voce	70	30

MASTER OF ARTS (GEOGRAPHY)

M.A.(Previous)

GEOMORPHOLOGY PAPER CODE DEMGEO 101

External 70

Internal 30

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Unit I

Geomorphology-Definition, nature and scope; History and development of geomorphic ideas: Fundamental Concepts-uniformitarianism, geological structure, process and stage; Recent trends in Geomorphology; Earth's Interior-structure and constitution; sources of knowledge; composition and layering system; Recent views of earth's interior Plate tectonics-Meaning and concept; plates, margins and boundaries; plate motion; Tectonic activities along the boundaries-Mountain building, Earthquake and Vulcanicity; Distribution of plates.

Unit II

Earth movement-Endogenetic forces; Structural Geomorphology- Faulting, folding and their geomorphic expressions. Earthquake-concept, causes, classification, intensity and magnitude; effects of earthquake; geographical distribution of earthquakes. Vulcanism concept, mechanism and causes; Volcanoes-classification, volcanic materials, Topography produced by vulcanicity and geographical distributions of volcanoes.

Unit III

The study of slopes: Main theories of slope development- Davis, King, Penck and Strahler, Exogenetic processes; concept of gradation, agents and processes of gradation; Weathering-meaning and concept; controlling factors; types and processes; geomorphic significance of weathering. Mass wasting-meaning and concept; classification and controlling factors; significance of mass wasting.

Unit IV

Geomorphic processes-dynamics of fluvial, aeolian, glacial and karst processes and resulting landforms. Erosion surfaces-meaning, identification of erosion surfaces-a case study.

Unit V

Applied Geomorphology-meaning, applications of geomorphology in Regional Planning, engineering projects, mineral exploration, hydrology and military operations; geomorphological mapping with a case study. Regional geomorphology of Punjab Plain, Aravalli region and Thar Desert of India.

CLIMATOLOGY & BIO-GEOGRAPHY

PAPER CODE DEMGEO 102

External 70

Internal 30

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Unit I

General Climatology-Nature and scope of climatology and its relationship with meteorology; climatic controls climatic elements atmospheric temperature, pressure moisture (humidity, evaporation, condensation, precipitation-formation types) atmospheric circulation general atmospheric Circulation-planetary winds, seasonal winds, local winds, jet stream; clouds-formation and types.

Unit II

Weather system and disturbances-air mass, fronts, cyclones, tomadoes; Ocean-atmospheric interaction-EL Nino, Southern Oscillation (ENSO) and La Nina, Monsoon winds, climate of India and its controls; western disturbances.

Unit III

Global climatic systems-Approaches to climatic classifications; classification of climate with special references to Koppen, Thornthwaite and Trewartha (theoretical aspects only); major climates of the world-tropical, mid latitude, polar and highland.

Unit IV

Applied Climatology: Climatic changes-evidences, possible causes, global warming and future changes in earth temperature; climate and agriculture with special reference to crop distribution, yield, phonology; atmospheric pollutants and their impact-problems or acid rain.

Unit V

Biogeography-Nature, field and functions: biosphere -definition, nature and composition; biospheric cycles, ecosystem-concept and functioning; evolution of living organism and factors influencing their distribution on the earth; Biomass and biogeographical realms-floristic regions and zoo- geographical realms.

Select Readings:

- Aggarwal, S.K. (1972) Fundamentals of Ecology, Ashish Publishers, New Delhi.
 Barry, R.G. and Chorely, R.J. (1982) Atmosphere, Weather and Climate, ELBS, Methuen & Co. Ltd. London.
 Bhutani Smita, (2000) Our Atmosphere, Kalyani Publishers, New Delhi.
 Critchfield, H.J. (1987) Climatology, Prentice Hall of India, New Delhi.
 Griffith, J.E. and Driscell, D.M. (1982) Survey of Climatology, Charles Merrill. Lal, D.S. (1993) Climatology, Chaitaya Publishing House, Allahabad.
 Pearo, N. (1977) Basic Biogeography, Langman, London.
 Riehl, H (1968) Introduction to Atmosphere, Mc Graw Hill, New York.
 Robinson, H (1982) Biogeography, ELBS, London.
 Robinson, P.J. and Henderson-Sellers (1986) Contemporary Climatology, Longman, London.
 Trewartha, G.T. (Latest edition) Introduction to Climate, Mc Graw Hill, New York.

RESOURCE GEOGRAPHY (WITH SPECIAL REFERENCE TO INDIA)

PAPER CODE DEMGEO 103

External 70

Internal 30

Note:

1. Examiner is required to set 10 questions covering whole syllabus of the paper and the candidates are required to attempt any 5 questions in all. All questions carry equal marks.

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Unit I

Nature, scope and significance of the Geography of Resources; Definition and concept of resources, classification of resources; natural resource availability, utilization and development; models and approaches to natural resource process; problems of resource utilization; population pressure, development and resource use. Qimmermann's, Kirk's and Broo-v field's Models.

Unit II

Use and misuse of resources: Global and Indian scenario; historical background and future prospects of natural resources-soil, water, mineral and forests (with special reference to India).

Unit III

Conservation and Management of Natural Resources; Meaning, principles and approaches to conservation of natural resources; resource conservation and management methods. Problems and prospects of natural resource management in India.

Unit IV

Human Resources-concept of human resources; human resource development; indicators of human resource development; education and development of human resources; occupational structure in India; structure of employment in India; human resource planning and regional disparities in human development in India.

Unit V

Natural resource utilization and regional development some select case studies: Tribal Area Development, Hill Area Development, Drought Prone Area Development, National Capital Region, and Indira Gandhi Canal Command Area.

Select Readings:

- Zimmermann, E.W. (1951) World Resources and Industries, Harper and Brothers, New Delhi.
 Ginsburg N. (1957) "Natural Resources and Economic Development' AAAG, Vol. 47, pp 197-212.
 Burton, I. and R.W. Kates (1984) Readings in Resource Management and Conservation, University of Chicago Press, Chicago.
 Ramesh, A (1984) Resource Geography Vol. 5, Heritage Publishers, New Delhi.
 Chand, M. and V.K. Puri (1985) Regional Planning in India, Allied Publishers, New Delhi.
 Raja, M. (1989) Renewable Resources, Development, Concept Pub., New Delhi.
 Bruce, Mitchell (1989) Geography and Resource Analysis, John Wiley and Sons, New York.
 Negi B.S. (1990) Geography of Resources, Kedar Nath and Ram Nath, Meerut.
 Guha, J.L. and P.R. Chattroj (1994) Economic Geography-A Study of Resources, The World Press, Pvt. Ltd. Calcutta.
 Ansari, A.H. Imam, S. and Alamtar Ali (1996) "Ecological Impact of Indira Gandhi Project in Western Rajasthan' Asian Profile, Vol. 24 No. 6, pp. 505-510 Mahapatra, A.C. (1998) Regional Development and Planning, Rewat Pub. Jaipur.
 Human Development Report (2001) Oxford University, Press.

POPULATION GEOGRAPHY

PAPER CODE DEMGEO 104

External 70

Internal 30

Note:

1. Examiner is required to set 10 questions covering whole syllabus of the paper and the candidates are required to attempt any 5 questions in all. All questions carry equal marks.

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Unit I

Human elements in Geography and the emergence of population geography as a field of specialization; Population Geography- definition, nature and scope; Recent trends; Relations with other disciplines demography and population studies; sources of data census, vital statistics, sample surveys etc- and their level of reliability with reference to India.

Unit II

Distribution and growth-concepts of distribution and density, its measures and mapping, world population distribution and its determinants; world growth in population- trends and patterns; regional dimension of population growth and demographic transition in India; theories of population growth-pre Malthusian views, Malthus' theory, views of social writers, optimum population theory, demographic transition model, logistic curve of population growth.

Unit III

Components of population change-fertility, mortality and migration; concepts and measurements of fertility and mortality; determinants and consequences of fertility and mortality; fertility transition in the world; world fertility levels and patterns: theories of fertility; fertility levels and patterns in India. Trends and patterns in world mortality; mortality in India. Migration-concept and measures; migration types-international and internal migration; major international migration streams in the world; internal migration in India. Theories and models of migration.

Unit IV

Population composition and characteristics-age and sex composition; literacy and education, material status, rural and urban composition, occupational structure; a geographical perspective of population composition in India-age, sex, marital status, literacy-male-female and rural-urban differentials in literacy, economic characteristics of population.

Unit V

Population and development-HDI and its components; population growth and economic development; population growth and environmental quality; population policies- types of population policies-fertility influencing, mortality influencing and migration influencing population policies. Population policy in India; population and health reproductive health and right; problems of population growth in the less developed world.

Select Readings:

- Agnihotri, SB (2000) Sex Ratio Patterns in Indian Population: A Fresh Explanation, Sage Publications, New Delhi.
- Beaujeu-Garnier J (1966), Geography of Population, Longman, London.
- Bhende Asha A and Kanitkar Tara (2002) Principles of Population Studies, Fourteenth Edition, Himalaya Publishing House, Mumbai.
- Chandna, R.C. (2002), Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
- Clarke, JI (1972) Population Geography, Second Edition, Pergamon Press, Oxford, England.
- Rubenstein, J.M. and Bacon R.S. (1990), The Cultural Landscape: An Introduction to Human Geography, Prentice-Hall of India, New Delhi.
- Knox, P.L. and Marston S.A. (1988), Places and Regions in Global Context, Prentice Hall, New Jersey.
- UNDP (2003), Human Development Report, Oxford University Press, Oxford.
- Woods, R (1979), Population Analysis in Geography, Longman.

PRACTICAL
PAPER CODE DEMGEO 105

External 70
Internal 30

Practical:

- i. Lab. Work test
 - ii. Record and Viva-voce on Lab work
- Unit-I, Unit-II, Unit-III – Field Report and Viva-voce

M.A.(FINAL)

MODERN GEOGRAPHICAL THOUGHT
PAPER CODE DEMGEO 201

External 70
Internal 30

Note:

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Unit I

The field of geography- its place in the classification of sciences; the tasks of geography as a social science; selected concepts in the philosophy of geography-distributions; relationships, areal differentiation and spatial organization; geographical versus sociological imagination towards a philosophy of social space.

Unit II

Dualisms in geography-systematic and regional geography, physical and human geography; Systematic geography and its relation with systematic sciences and with regional geography; the myth and reality about dualisms; Regional geography-concept of region, regionalization and the regional method.

Unit III

Dominant paradigms upto 1950: Exploration, environmental determinism, possibilism and regionalism; Quantification and development of theory in human geography-nature and consequences of quantitative revolution in geography; Scientific explanation-routes to scientific explanations (Inductive and deductive); Major modes of explanation (based on David Harvey).

Unit IV

The historical explanation in geography; approaches to the study of historical geography, impact of evolutionary biology on geographical thought; geography and environmentalism; the changing views on man-environment relationship.

Unit V

Anti positivism and the development of 'human centred' theories; behaviourism, humanistic; and radical responses; Modern Vs. postmodern geographics.

RESEARCH METHODS AND QUANTITATIVE TECHNIQUES IN GEOGRAPHY

PAPER CODE DEMGEO 202

External 70

Internal 30

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Unit I Conceptual Basis

Meaning and purpose of research: approach to research problems : facts, hypotheses and theories; logic and scientific method-the roots to scientific explanation-deductive and inductive forms of references: logical fallacies-definition, measurement and classification; nature of geographic research; explanation in geography- some general problems; the geographic data matrix.

Unit II Methods of Analysis

Qualitative and Quantitative methods-an introduction; Significance of Quantitative Analysis in Geography; the nature of geographical data; kinds of measurement nominal, ordinal, interval and ratio; Variable discrete and continuous: tabulation of data; frequency distribution; cumulative frequency; class boundaries, class intervals and class limits; Partitioned Values (quartiles, deciles and percentiles).

Unit -III Summarizing Data

Arithmetic mean (individual values and grouped data), the standard deviation (individual values and grouped frequencies); the Gibbs-Martin Index of Diversification; the Ternary Diagram, Weaver's crop combination; Biasness of Scale; Composite Index.

Unit -IV Measures of Spatial Distribution

Point Distribution : Centographic Techniques- Mean Centre, Median Centre; Near neighbour Analysis. Line Distribution : Networks : Transport Networks-Accessibility of a node, route density, route sinuosity; traffic flow-traffic density, traffic connectivity. Areal Distribution: Lorenz curve, Index of concentration location quotient, Index of Dissimilarity or Ginni Co-efficient, Co-efficient of variability.

Unit -V Measures of Association Between Patterns

Construction and meaning of Scatter Diagram, Spearman's Rank and Product Moment Correlation Co-efficients, the ordinary least square method of fitting a regression line, explanation and residuals-ANOVA in testing of the estimates; residuals and their mapping; The Chi Square Analysis.

Note:

The question paper shall contain ten questions in all, including two questions from each unit. Candidate shall attempt five questions in all selecting at least one question from each unit. All questions carry equal marks.

POLITICAL GEOGRAPHY
PAPER CODE DEMGEO 203

External 70
Internal 30

Note:

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Unit I Nature, History and Development of Political Geography

Nature and Scope of Political Geography, Approaches to the Study of Political Geography; Morphological, Functional and World-Systems. Major schools of thought: The Organismic; The Chorological; Spatial-Behavioural; Political Economy, and Place Perspective.

Unit II State, Nation and Nation-State

Concept of State, Nation, Nation-State and Nation-Building; Colonialism, Decolonization and Neo Colonialism; Federalism and other forms of government; Globalisation and the crisis of the territorial state.

Unit III Geography of World Politics

The post 1945 transition of world order and the rise and transformation of the cold war-the post cold war global scene; The Multipolar World and the Strategic Ideas of S.B. Cohen; Globalisation of Capital; Past Developments and Current Trends; Eco-Politics between the Developed and Developing World.

Unit -IV Political Geography of South Asia

South Asia as a Geo-political region, India as a regional power in South Asia; Pokharan II and the security scenario in the South Asia.

Unit -V Political Geography of Contemporary India

Unity-diversity : Fifty years of Indian federalism; Interstate issues (water disputes and riparian claims) Area Administration: Emergence of New States; Administrative Area Reforms: 73rd amendment and the Panchayati Raj Administration, 74th Amendment and Urban Local Self-Government.

SOCIAL GEOGRAPHY
PAPER CODE DEMGEO 204

External 70
Internal 30

Note:

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Unit I

Nature and development of social geography; philosophical bases of social geography Positivists; structuralist; radical, humanistic, postmodern and post structuralist; social geography in the realm of social sciences.

Unit II

Space and Society: Understanding society and its structure and process; geographical bases of social formations; contribution of social geography to social theory; power relations and space.

Unit III

Towards a social geography of India; Social differentiation and region formation; evolution of Socio cultural regions of India; bases of social region formation; role of race, caste, ethnicity; religion and languages; Indian unity and diversity; social transformation and change in India.

Unit IV

Social well-being : Concepts of social well-being, physical quality of life, Human development; measurement of human development with social, economic and environmental indicators; Rural urban deprivation in India with respect to health care; education and shelter; deprivation and discrimination issues relating to women and under privileged groups; Patterns and bases of rural and urban society.

Unit V

Public policy and social planning in India: review of Five Years Plans and area plans towards social policy in India; strategies to improve social well-being in tribal, hill, drought and flood prone areas; Social and Environmental impact assessment of development projects.

PRACTICAL

PAPER CODE DEMGEO 205

External 70

Internal 30

Practical:

i. Lab. Work test

ii. Record and Viva-voce on Lab work

Unit-I, Unit-II, Unit-III – Field Report and Viva-voce