GEOGRAPHY

MA/MSc. II

In MA/MSc. final year of geography there shall be four theory paper carrying 100 marks each and one practical cum field work carrying 100 marks. First and second papers are complusory and third & fourth paper's has following group of papers. Students have to choose anyone of them. Students have to pass theory and practical separately. Passing marks in theory and practical is 36%.

Paper I	Regional Geography of India	100 marks
Paper II	Climatology and Oceanology	100 marks

Third paper-select any one out of following :

Paper IIIA	Agricultural Geography	100 marks
Paper IIIB	Bio-Geography	100 marks
Paper IIIC	Commerical Geography	100 marks
Paper IIID	Natural Resource management	100 marks
Paper IIIE	Social Geography	100 marks
Paper III F	Remote Sensing and Photogrammetry	100 marks

Fourt paper-select any one out of the following :

Paper IVA	Geography of Rural Settlements	100 marks
Paper IVB	Geography of Tourism	100 marks
Paper IVC	Political Geography	100 marks
Paper IVD	Urban Geography	100 marks
Paper IVE	Transport Geography	100 marks
Paper IV F	Geographical Information System	100 marks
Practical		

Practical based on papers opted as III & IV having 50 marks each. Sutdent may submit idssertation in place of Third or fourth paper's practical. Evaluation of dissertation will be done by extenal and internal examinees.

M.A. II — Geography

(2)

Paper I —— Regional Geography of India

A. Geology and Physiography - Origin of Himalaya, Origin of River system Delimitation and characteristics of Physiography, Climatic, Agro-climatic Regions, soil regions and Natural Vegetation Regions.

B. Population and Resource - Spatial aspects of growth and distribution of population, population regions, population problems, mineral resource regions, Power resources regions, population resource region, pattern of resource utilization.

C Economic Regionalization - Agricultural development, Impact of Green Revolution, Agricultural Regions, Industrial Policies and Trend of Industrialization, Industrial Regions, Industrial complexes, Problems and Prospects of Industrially Backward regions.

D. Infrastructure and Development - Transport Network - Rail, Road, Inland waterways, Marketing, Banking in Indian Economy, Regional development policies in five-year planes, Impact of Globalization, Regional Pattern of Development their causes and consequents

E Geographical Regionalization of India - Regionalization by stamp, spate and R.L. Singh: Geographical conditions, resource base, pattern of economic, development, problems and prospects of Kashmir Himalaya, Rajasthan Plain, Middle Ganga Valley, Gujrat region, Malwa Plateau and Bramhmputra valley.

SUGGESTED READING :-

1. Centre for Science & Environment (1998) State of India's Environment, New Delhi.
2. Deshpande C.D. India a Regional Interpretation ICSSR & Northern Book Centre, 1992.
3. Misra, J.P. : Bharat Ka Bhoogol, University Road Faizabad.
4. Kundu A Raza Mooins — Indian Economy : the Regional Dimensions. Spectrum Publishers, New Delhi. 1982.
5. Robins Francis — The Cambridge Encyclopedia of India Pakistan, Bangladesh, Nepal, Bhutan, & Maldives, Cambridge University Press London, 1989.
6. Singh R L (ed) — India A regional Geography, National geographical Society, India, Varansi, 1971
7. Spate OHK & A.T.A Learmonth- India & Pakistan Methuen, London, 1967.
8. [illegible] R. & Gopal Krisnna, Emerging India Reprinted by Rawat Publicationas, Jaipur, 1996.

GEOGRAPHY
MA/MSc. Part II

PAPER II CLIMATIOLOGY & OCEANOGRAPHY CLIMATOLOGY

Unit 1 : Nature and scope of climatology and its relationship with Metereology. Composition, mass and structure of the atmosphere.

Insolation heat balance of the earth, green house effect; vertical and horizontal distribution of temperature. Atmosphric motion : Forces controlling motion of air distribution and vorticity, local winds jet stream, general circulation in the atmosphere;

Atmosheric moisture : Humidity, evaporation, condensation, precipitation : formation, types, acid rain, world pattern of precipitation.

Unit 2 : Tropical, temperate and high latitude weather systems-concept of air masses and atmospheric disturbance, ocean atmospheric interaction- El Nino, southern Oscillation (ENSO) and La Nina, monsoon winds, Norwesters and cyclones Tropical Tempearate Phenomena, climate of India and its controls: western disturbances.

Unit 3 : Climatic classification of Koppen, and thornthwaite. Major climates of the world Tropical, Temperate, Desert and mountain climate.

Unit 4 : Climatic changes : Evidences, Possible causes; global warming, environmental impacts and socitey's response.

Unit 5 : Applied climatology : Data Collection, Archiving, accessing, interprefation and generation of climatic information specially for water balance studies. Soils, agriculture activites, house types and health.

OCEANOGRAPHY

Unit 1 : nature and scope of the oceanography-History of oceanography; distribution of land and water, major features of ocean basins; continental margin and deep-ocean basins : earth structure and plate tectonice; marine sediments.

Unti 2 : Physical and chemical properties of esa water, interlink between atomspheric circulation and circulation patterns in the oceans, surface currents; thermohaline, wave and tides.

Unit 3 : Marine bio-logical environment : bio-geochemical cycles in the ocean, biozones, types of Organism : plankton, Nekton and benthos, foods mineral rosources of the sea.