

चौधरी रणबीर सिंह विश्वविद्यालय जींद Chaudhary Ranbir Singh University, Jind (Established by the State Legislature Act 28 of 2014



Department of Geography

Syllabus of Entrance Test for MSc. Geography -2023-2024

of Geomorphology, Geomorphology: Fundamental Concepts timescale, Processes of development of land forms; Endogenetic and exogenetic forces, Orogenesis and important phases of mountain building, Mountain building theories, Continental drift and platet ectonics. Denudation processes; weathering anderosion, Conceptofgeomorphiccycles; Davisand Penk, Landforms associated with fluvial, gla karstcycles, forms and cial, arid, coastal and Slope concepts evolution. Environmental and Applied geomorphology and Geomorphic hazards.

Climatology: Composition and structure of atmosphere, Insolation, Heatbudget, Distribution of the mperature.atmosphericpressureandgeneralcirculationofwinds; Monsoons and jet streams, Air-masses instability atmosphere. Stability and and fronts, Temperate and tropical cyclones, Types and distribution of precipitation, Classification of world climates; Koppen's and Thornthwatte's schemes and Hydrologicalcycle.

Oceanography: Relief of Oceans; hypsometric curve, Bottom Indian, Atlanticand Pacificoceans, Oceandeposits, Coralreefs, Temperature, density and salinity of foceans, Oceancirculations; tides and ocean currents, Sea-

levelchanges, Marineresources and their utilization.

Environment Geography: Components of environment and ecology, Physical factors influencing world distribution of plants and animals, Types, forms and functionsof ecosystem; forest, grassland, marine, desert and mountain ecosystems, Biodiversity; depletion and conservation, Environmental pollution; types, causes, effects and solutions, Climatechange; global warming and ozonedepletion, Environmental hazards and disaster s:types,effectsandmanagementandEnvironmentalImpactAssessment(EIA) World distribution of plants & animals, major floristic regions of the world.

Geographical Techniques Sources of Geographic Information and Data (spatial and nonspatial), Types of Maps, Techniques of Map Making (Choropleth, Isarithmic, Dasymetric, Chorochromatic, Flow Maps) Data Representation on Maps (Pie diagrams, Bar diagrams and Line Graph. Descriptive statistics: visual descriptive methods, histograms, frequency curve. Measures of central tendency and partition values. Measure of dispersion: quartile deviation, mean deviation and standard deviation. Probability distribution and normal curve. Sampling: types of sampling and its applications in geographical studies. Inferential statistics: confidence intervals and hypothesis testing. Measures of inequality: Loren curve, Gini's coefficient. Bivariate analysis: scatter diagram, correlation (Spearman's rank correlation). Introduction to Map Projection: Meaning, Classification and importance; Characteristics of latitudes and longitudes lines. 18/05/23 MM/Mary 5/93

Chairperson Department of Geography



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Remote Sensing and GIS GIS Database (raster and vector data formats and attribute data formats). Functions of GIS (conversion, editing and analysis), Georeferencing (coordinate system and map projections and Datum), GIS Application, Basics of Remote Sensing (Electromagnetic Spectrum, Sensors and Platforms, Resolution and Types, Elements of Air Photo and Satellite Image Interpretation and Photogrammetry), Types of Aerial Photographs, Digital Image Processing, its applications in Natural Resources Management in India, GPS Components (space, ground control and receiver segments) and Applications.

Economic Geography: Spatial organisation and classification of economies, Factors affecting spatial organization of economic activities; primary, secondary, tertiaryandquaternary, Classification of resources, Forest, power and mineral resources, Conservat ion of resources, World energy crisis, Globalisation and its impact on worldeconomy and Majorregional tradeblocks and their economic integration.

HumanGeography:ModernschoolofthoughtinHumanGeographypossibilism, determinism, neo-determinism, Migration its causes and types, Distributionofimportantracesoftheworld, distributionofhumanpopulation in the world.

Geography of India: Physiographic divisions, Climate, Vegetation, Drainage, Major soil types, Water resources, Irrigation, Agriculture; major food and commercial crops, Green revolution and food security, Agro-climatic regions, Mineral and powerresources, Major industries and industrial regions, Population distribution and growth, Population problems and policies, Tribes, Tribalareas and their problems, Regional disparities in social and economic development, Regional planning in India and planning regions, Development of road, rail and inland water ways and Natural disasters in India; earthquakes, floods, droughts, cyclones and tsunami.

Geography of Haryana: Physiographic divisions, Climate, Rivers and lakes, Soilsandvegetation, Mineralsandpowerresources, Agricultureandirrigation, Agroclimatic region, Cultural practice and society.climatic regions, Livestock, Major industries and industrial regions, Sites of geo-tourism, Population; distribution, density, growth, sex-ratio, literacy, Environmental problems; desertification, deforestation and soil erosion, Biodiversity and its conservation and Development programmes.

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