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SEMESTER-IV

GEOGRAPHY(MAJOR)

PAPER	UNITS	TEACHERS
GEOMJ-MC-06A: Population Geography (Theory)	1. Population geography: Definition, scope, contents, and development; population geography and demography relations; Sources of population data.	MITHUN RAY
	2. Fertility, mortality, and migration: Concept, determinants, measures, and consequences.	DR. MOSFUDAR RAHAMAN
	3. Population theories and models: Malthusian and Marxian theories, demographic transition model, optimum population theory. 4. Demographic situation in developed and developing countries: Concept of underpopulation, optimum population and overpopulation.	LAMHU DOLMA TAMANG
	5. Population composition: Age, sex, social and economic composition of population.	CHANDA BISWAS
	6. Spatial patterns of population: Growth, density, and distribution in India.	AVIJIT DAS
	7. Population policy: Types and characteristics; Indian population policies (post-independence).	DR.NANIGOPAL KAPASIA
	8. Contemporary population issues in India: Poverty, malnutrition and unemployment, maternal and child health issues, labour migration, and diaspora.	AVIJIT ROY
GEOMJ-MC-06B: Population Geography (Practical)	1. Population data analysis: Decadal growth, population projection (Trend extrapolation: linear, geometric)	MITHUN RAY
	1. population density (Arithmetic and Agricultural) and Age-sex pyramid.	LAMHU DOLMA TAMANG
	2. Measures of fertility: CBR, ASFR, TFR	DR. MOSFUDAR

		RAHAMAN
GEOMJ-MC-06B: Population Geography (Practical)	3.Measures of mortality: CDR, IMR, MMR	DR. NANIGOPAL KAPASIA
	4.Life Table Preparation.	DR. AVIJIT RAY
GEOMJ-MC-07A: Biogeography (Theory)	1. Biogeography: concept, scope, content, approaches, branches, and develop 2. Biogeographical regions of the world and India.	MITHUN RAY
	3. Ecosystem: Concept, components, types, structures (trophic levels, food chain, and food web), and hierarchy (biosphere, biomes, ecosystem, and biotope), ecological pyramids (Energy, number, and biomass).	LAMHU DOLMA TAMANG
	4. Ecological succession: Concept, stages, and significance.	DR MOSFUDAR RAHAMAN
	5. Biogeochemical cycles: Carbon and nitrogen cycles and their significance	CHHANDA BISWAS
	6. Biodiversity: Definition, classification (Whittaker), significance, biodiversity hotspot and regions; threats and conservation practices.	DR. NANIGOPAL KAPASIA
	7. Major biomes of the world: Tropical rainforest, hot desert, mangrove, and coral reef.	DR. AVIJIT ROY
GEOMJ-MC-07B: Biogeography (Practical)	1. Measurement of Biodiversity – Simpson's evenness index and Shannon-Weiner diversity index	DR. MOSFUDAR RAHAMAN
	2. Living planet index (WWF)	DR. NANIGOPAL KAPASIA
	3. Red List Index (RLI)	MITHUN RAY
	4.Ecological footprint (Global Footprint Network)	LAMHU DOLMA TAMANGT