



## TEST SERIES SCHEDULE (I.A.S. 2019)

### GEOGRAPHY OPTIONAL with Shamim Anwer

**ONLINE**

DATE/DAY	TEST NO.	TIME	TOPICS TO BE COVERED
15th July	PBS – 1	9:30 AM – 12:30 PM	<p><b>PAPER: I - Geomorphology:</b> Factors controlling landform development; Endogenetic and exogenetic forces; Origin and evolution of the earth's crust; Fundamentals of geomagnetism; Physical conditions of the earth's interior; Geosynclines; Continental drift; Isostasy; Plate tectonics; Recent views on mountain building; Vulcanicity; Earthquakes and Tsunamis; Concepts of geomorphic cycles and Landscape development; Denudation chronology; Channel morphology; Erosion surfaces; Slope development; Applied Geomorphology; Geo-hydrology, economic geology and environment.</p> <p><b>PAPER: II -Physical Setting:</b> Space relationship of India with neighbouring countries; Structure and relief; Drainage system and watersheds; Physiographic region.</p>
17 <sup>th</sup> July	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
24 <sup>th</sup> July	PBS – 2	9:30 AM – 12:30 PM	<p><b>Climatology:</b> Temperature and pressure belts of the world; Heat budget of the earth; Atmospheric circulation; atmospheric stability and instability; Planetary and local winds; Monsoons and jet streams; Air masses and fronto genesis; Temperate and tropical cyclones; Types and distribution of precipitation; Weather and Climate;</p>

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			<b>PAPER: II-</b> Mechanism of Indian monsoons and rainfall patterns, Tropical cyclones and western disturbances; Floods and droughts Koppen's, Thornthwaite's and Trewartha's classification of world climates; Hydrological cycle; Global climatic change and role and response of man in climatic changes; Applied climatology and Urban climate. <b>PAPER:II:</b> Climatic regions.
26 <sup>th</sup> July	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
2 <sup>nd</sup> August	PBS – 3	9:30 AM – 12:30 PM	<b>Oceanography:</b> Bottom topography of the Atlantic, Indian and Pacific Oceans; Temperature and salinity of the oceans; Heat and salt budgets, Ocean deposits; Waves, currents and tides; Marine resources: biotic, mineral and energy resources; Coral reefs, coral bleaching; Sea-level changes; Law of the sea and marine pollution. <b>Biogeography:</b> Genesis of soils; Classification and distribution of soils; Soil profile; Soil erosion, Degradation and conservation; Factors influencing world distribution of plants and animals; Problems of deforestation and conservation measures; Social forestry, Wildlife; Major gene pool centers. <b>Environmental Geography:</b> Principle of ecology; Human ecological adaptations; Influence of man on ecology and environment; Global and regional ecological changes and imbalances; Ecosystem, their management and conservation; Environmental degradation, management and conservation; Biodiversity and sustainable development; Environmental policy; Environmental hazards and remedial measures; Environmental education and legislation. <b>PAPER: II:</b> Soil types & their distribution; Natural Vegetation.
4 <sup>th</sup> August	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
11 <sup>th</sup> August	PBS – 4	9:30 AM – 12:30 PM	<b>PAPER: I:</b> Economic Geography: World economic development: measurement and problems; World resources and their distribution; Energy crisis; The limits to growth; World agriculture: typology of agricultural regions; agricultural inputs and productivity; Food and nutrition problems; Food security; Famine: causes, effects and remedies; World industries: locational patterns and problems; Patterns of world trade.

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			<p><b>PAPER: II:</b> Resources: Land, surface and ground water, energy, minerals, biotic and marine resources; Forest and wildlife resources and their conservation; Energy crisis.</p> <p><b>Agriculture:</b> Infrastructure: irrigation, seeds, fertilizers, power; Institutional factors: land holdings, land tenure and land reforms; Cropping pattern; Agricultural productivity, Agricultural intensity; Crop combination, Land capability; Agro and social-forestry; Green revolution and its socio- economic and ecological implications; Significance of dry farming; Livestock resources and white revolution; aquaculture; sericulture, apiculture and poultry; Agricultural regionalization; Agro-climatic zones; Agro ecological regions.</p> <p><b>Industry:</b> Evolution of industries; Locational factors of cotton, jute, textile, iron and steel, aluminum, fertilizer, paper, chemical and pharmaceutical, automobile, cottage and agro-based industries; Industrial houses and complexes including public sector undertakings; Industrial regionalization; New industrial policies; Multinationals and liberalization; Special Economic Zones; Tourism including ecotourism.</p>
13 <sup>th</sup> August	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
20 <sup>th</sup> August	PBS – 5	9:30 AM – 12:30 PM	<p><b>PAPER: I:</b> Population and Settlement Geography: Growth and distribution of world population; Demographic attributes; Causes and consequences of migration; Concepts of over-under-and optimum population; Population theories, World population problems and policies, Social well-being and quality of life; Population as social capital. Types and patterns of rural settlements; Environmental issues in rural settlements; Hierarchy of urban settlements; Urban morphology: Concepts of primate city and rank-size rule; Functional classification of towns; Sphere of urban influence; Rural - urban fringe; Satellite towns; Problems and remedies of urbanization; Sustainable development of cities.</p> <p><b>Regional Planning:</b> Concept of a region; Types of regions and methods of regionalization; Growth centres and growth poles; Regional imbalances; Regional development strategies; Environmental issues in regional planning; Planning for sustainable development.</p>

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			<p><b>PAPER: II:</b> Cultural Setting: Historical Perspective of Indian Society; Racial, linguistic and ethnic diversities; Religious minorities; Major tribes, tribal areas and their problems; Cultural regions; Growth, distribution and density of population; Demographic attributes: sex-ratio, age structure, literacy rate, workforce, dependency ratio, longevity; Migration (inter-regional, intra-regional and international) and associated problems; Population problems and policies; Health indicators.</p> <p><b>Settlements:</b> Types, patterns and morphology of rural settlements; Urban development's; Morphology of Indian cities; Functional classification of Indian cities; Conurbations and metropolitan regions; urban sprawl; Slums and associated problems; Town planning; Problems of urbanization and remedies.</p> <p><b>Regional Development and Planning:</b> Experience of regional planning in India; Five Year Plans; Integrated rural development programmes; Panchayati Raj and decentralized planning; Command area development; Watershed management; Planning for backward area, desert, drought prone, hill, tribal area development; Multilevel planning; Regional planning and development of island territories.</p>
<b>22<sup>nd</sup> August</b>	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
29 <sup>th</sup> August	PBS – 6	9:30 AM – 12:30 PM	<p><b>PAPER: I:</b> Perspectives in Human Geography: Areal differentiation; Regional synthesis; Dichotomy and dualism; Environmentalism; Quantitative revolution and locational analysis; Radical, behavioural, human and welfare approaches; Languages, religions and secularisation; Cultural regions of the world; Human development index.</p> <p><b>Models, Theories and Laws in Human Geography:</b> Systems analysis in Human geography; Malthusian, Marxian and demographic transition models; Central Place theories of Christaller and Losch; Perroux and Boudeville; Von Thunen's model of agricultural location; Weber's model of industrial location; Ostov's model of stages of growth. Heartland and Rimland theories; Laws of international boundaries and frontiers.</p> <p><b>PAPER: II:</b> Political Aspects: Geographical basis of Indian federalism; State reorganization; Emergence of new states; Regional consciousness and</p>

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			interstate issues; International boundary of India and related issues; Cross border terrorism; India's role in world affairs; Geopolitics of South Asia and Indian Ocean realm. <b>Contemporary Issues:</b> Ecological issues: Environmental hazards: Landslides, earthquakes, tsunamis, floods and droughts, epidemics; Issues relating to environmental pollution; Changes in patterns of land use; Principles of environmental impact assessment and environmental management; Population explosion and food security; Environmental degradation; Deforestation, desertification and soil erosion; Problems of agrarian and industrial unrest; Regional disparities in economic development; Concept of sustainable growth and development; Environmental awareness; Linkage of rivers; Globalization and Indian economy.
31 <sup>st</sup> August	--do--	1:30 PM Onwards	Discussion and general interaction on the whole topics.
8 <sup>th</sup> September	PBS – 7	9:30 AM – 12:30 PM	<b>MODEL TEST PAPER-1</b>
	PBS – 8	2:00 PM – 5:00 PM	<b>MODEL TEST PAPER-2</b>
10 <sup>th</sup> September	--do--	1:30 PM Onwards	<b>Discussion and general interaction on Paper – 1 &amp; Paper - 2</b>

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