Nothing succeeds like success, but it asks for changes, encountering uncharted, unknown which is always a challenge. To succeed in life and achieve results you must understand and master three mighty forces of **DESIRE, BELIEF AND EXPECTATIONS**. A within powerful influential and sufficiently independent person can only become successful. This is also the only path to individual satisfaction in life. The loftiest problem faced by us today is lack of vision, lack of direction. Problems are part of life and troubles the essence of success. In his own time, in his own place, in what he really is and in the stage he has reached good or bad, every human being is specific element within the whole of the manifest divine being. So instead of being afraid of difficulties, try to understand the relevance of your suffering. Adversity always presents opportunities for introspection.

**Between the conception**  
**And the creation**  
**Between the emotion**  
**And the response**  
**Falls the shadow.**

The requirement of personal freedom incorporates the prerequisite of firstly building own educational skills, knowledge is a tangible asset and most important tool for the work to be done. More updated knowledge you possess more free you become. Secondly developing passion for personal responsibility for the task. Be active! Take responsibilities! Work for the things you believe in. If you do not, you are surrendering your fate to others.
“When the freedom they wished for most was freedom from responsibility, Athens ceased to be free and was never free again” (Historical Edith Hamilton on ancient Greece)

The fact is that there is a great deal that most of us can to increase our freedom. We can combat the force that threatens to oppress us. We can fortify ourselves with the qualities and conditions that promote individual freedom and in doing so we create stronger environment for ourselves enhancing the capabilities of achieving unprecedented goals. Success lies in the philosophy of sustaining what needs to be done and abstain what is detrimental. ‘If you really want to leave your footprints on the sand of time, don’t drag your feet’.

Most of us suffer unnecessary misery all our lives because we do not know how to manage our emotions. We are paralysed by some sort of a psychological inertia. Phrases like, ‘the next best alternative’, ‘the only feasible option’ are the common places holders. These are self defeatists thought pattern and negative behaviour. As you sow so shall you reap. An input always equals output. Strive yourselves for the best – success. Failure is never final, it is a stepping stone towards the glorious achievement.
Every intelligent and sensible young person, being ambitious aspire to be an IAS, but just to aspire without firm determination, required devotion, dedication and DIRECTION, means to make castle in the air, as it involves tough competition from among the aspirants. Hence the requirements are firm determination, wholehearted devotion, and dedication and of course, right DIRECTION. Astray study with devotion, on systematic and right lines leads to success. Study on right lines and in right DIRECTION means to have clear vision of the present day patterns, trends and requirements of the exam.

The Institution – DIRECTION has been playing the role of facilitator, promoter, supporter of the aspirants successfully, in order to make them achieve their dreams and ultimately to contribute to the development of the country.

The institution is providing classes daily to give continuity to the preparation process of the aspirants. It provides intensive training program based on analytical approach. This is the only institution providing individual attention to each student’s queries & problems, so as to help them out to reach the sky as far as possible. Intensive practice for map studies and diagrams are given exclusively in this institution as these have proven to be the form of test on the UPSC format on weekly basis so as the aspirants acquaint themselves with the writing approach and overcome their weaknesses to The individual personality
development programme also goes hand in hand exclusively in this institution. So as the aspirants gains confidence in not only writing but also expressing him verbally which definitely helps him in facing the interviews? Last but not the least the faculty of this institution are more than eager to help out the aspirants at any juncture as they are very readily approachable.

The importance and significance of this institution also lies in the fact that it exclusively deals with the subject Geography that is fast gaining importance as an optional. Being semi-scientific in nature, it is well adaptable by the students of other streams especially science. Moreover, it is only subject in social category where in the students can easily score very high (ranging between 350 - 424).

In the end I want to extent my best wishes to all the sincere aspirants for the success in the examination.

NEETU SINGH

Director
1. **Geomorphology:** 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: Geohydrology, economic geology and environment.

2. **Climatology:** 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 frontal genesis, Temperate and tropical cyclones; Types and distribution of precipitation; Weather and Climate; 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.
3. **Oceanography:** 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.

4. **Biogeography:** 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; agro-forestry; Wild life; Major gene pool centres.

5. **Environmental Geography:** 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.
1. **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.

2. **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.

3. **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.

4. **Regional Planning:** Concept of a region; Types of regions and methods of regionalisation; Growth centres and growth poles; Regional imbalances; regional development strategies; environmental issues in regional planning; Planning for sustainable development.

5. **Models, Theories and Laws in Human Geography:** 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.

**GEOGRAPHY OF INDIA**

**PAPER II**

1. **Physical Setting:** Space relationship of India with neighboring countries; Structure and relief; Drainage system and watersheds; Physiographic regions; Mechanism of Indian monsoons and rainfall patterns, Tropical cyclones and western disturbances; Floods and droughts; Climatic
regions; Natural vegetation; Soil types and their distributions.

2. **Resources:** Land, surface and ground water, energy, minerals, biotic and marine resources; Forest and wild life resources and their conservation; Energy crisis.

3. **Agriculture:** 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; aqua-culture; sericulture, apiculture and poultry; agricultural regionalisation; agro-climatic zones; agro-ecological regions.

4. **Industry:** Evolution of industries; Locational factors of cotton, jute, textile, iron and steel, aluminium, fertilizer, paper, chemical and pharmaceutical, automobile, cottage and agro-based industries; Industrial houses and complexes including public sector undertakings; Industrial regionalisation; New industrial policies; Multinationals and liberalization; Special Economic Zones; Tourism including eco-tourism.

5. **Transport, Communication and Trade:** Road, railway, waterway, airway and pipeline networks and their
complementary roles in regional development; Growing importance of ports on national and foreign trade; Trade balance; Trade Policy; Export processing zones; Developments in communication and information technology and their impacts on economy and society; Indian space programme.

6. **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, work-force, dependency ratio, longevity; migration (inter-regional, intra-regional and international) and associated problems; Population problems and policies; Health indicators.

7. **Settlements:** Types, patterns and morphology of rural settlements; Urban developments; 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.

8. **Regional Development and Planning:** Experience of regional planning in India; Five Year Plans; Integrated rural development programmes; Panchayati Raj and decentralised planning; Command area development;
Watershed management; Planning for backward area, desert, drought prone, hill, tribal area development; multi-level planning; Regional planning and development of island territories.

9. **Political Aspects:** Geographical basis of Indian federalism; State reorganisation; Emergence of new states; Regional consciousness and inter state 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.

10. **Contemporary Issues:** 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; Globalisation and Indian economy.
PAPER I

PHYSICAL GEOGRAPHY

i) Geomorphology

1991 : Analyses the sequential development of landforms in either Karst or Coastal region.

1992 : Discuss, with examples, the influence of vulcanism and diastrophism on the evolution of landscape.

1993 : Explain the factors causing rejuvenation in landscape and describe the resultant landform.

1994 : Discuss the concept of cycle of erosion and bring out clearly the difference between the views of Davis and Penck.

1995 : Discuss the limitations of the theory of Continental Drift and show how the theory of Plate Tectonics is an improvement over it.

1996 : Discuss the processes of mechanical and chemical weathering and show their relationship with soil formation.

1997 : Discuss the concept of polycyclic landforms and present an analytical study of the polycyclic landforms of a selected region.

1998 : Discuss the concept of volcanicity and show how the theory of Plate Tectonics explains the mechanism of volcanism and volcanic eruptions.
1999: Bring out the distinctions between the ‘continental drift’ theory and the ‘plate tectonics’ theory.

2000: With reference to the theory of plate tectonics, explain the origin and growth of young fold mountain.

2001: Present a critical analysis of the theory of isostasy.

2002: Provide a critique of the ‘geographical cycle’ model, propounded by Davis.

2003: Explain the sequential development of landforms associated with the coastal areas.

2004: Describe the landforms which are products of endogenetic forces.

2005: “Structure is a dominant control factor in the evolution of Landforms” Discuss with suitable examples.

2006: Critically evaluate the continental drift hypothesis of A. Wegener.

2007: Define the concept of isostasy and discuss the postulations of Airy and Pratt.

2008: Critically examine the concept of geomorphic cycle and discuss the views of W. M. Davis and W. Penck.

2009: (a) Highlight the geomorphic features essentially found in topographies under the Second Cycle of Erosion.

2009: (b) Discuss views on slope development provided by L. C. King.
2010:  Karst Topography (Short Notes)

2010:  Bring out the relevance of seismic study in determining the structure of earth’s interiors.

2010:  Weathering is a complex phenomenon involving a number of the process and is influenced by various factors.

2011:  (a) Name the climatically controlled agents of erosion. Explain how they differ in terms of properties of matter. Compare the landforms produced by each one of them.

(b) Explain the concept of Isostasy as postulated by Airy and Pratt.

2012:  (a) Palaeozoic glacial evidence for Continental Drift. (150 Words)

(b) Systems approach to landforms analysis. (150 Words)

2012:  Explain how Bosche and Haldenhang lead to the Theory of Slope Replacement. (400 Words)

2012:  Characteristics of the standard epigene cycle of erosion. (250 words)

2012:  Programmes initiated by the International Council of Science on Earth System Studies. (250 words)

2013:  Differences between Normal cycle and Arid cycle of Davis. (150 Words)

2013:  What is ‘Base level’? Explain the types of base level. (250 words)
ii) **Climatology**

1991: Explain the origin, distribution and characteristics of tropical cyclones.

1992: Discuss the origin, movements and characteristics of air masses and explain their role in influencing world climates.

1993: No question.

1994: Explain the basis of Koppen’s classification of climates. Also mention its merits and limitations.

1995: Explain and illustrate the life-cycle of a temperate cyclone and also describe the weather associated with it.

1996: Examine critically the drawbacks of Koppen’s Classification of climates. Explain how Thornthwaite attempted to overcome Koppen’s limitations.

1997: Define air masses. How do they originate? Classify them and state the characteristics of any one type.

1998: Discuss the nature and composition of earth’s atmosphere.

1999: Make a comparative study of the tropical and temperate cyclones.

2000: Discuss the distribution of precipitation in the world.

2001: Discuss the concept of air masses and present their classification.

2002: Discuss the criteria which Thornthwaite adopted in his 1948 classification of world climates.
2003: Discuss the mechanism and significance of tricellular meridional circulation of atmosphere.

2004: No question.

2005: Discuss the main features of the climatic classification system evolved by Koppen. Also point out its anomalies.

2006: Compare the structure and associated weather conditions of tropical cyclone with that of temperate cyclone.

2007: Discuss the development of local winds, and their influence on local weather, giving three examples of the well-known local winds in the world.

2008: Discuss the mechanism and origin of Monsoon winds and explain the role of El Niño on Monsoon circulation.

2009: How does Climate Change affect urban areas?

2010: Inversion of temperature.

2010: What is polar front and how does cyclone develop along this front? Describe the weather conditions associated with it.

2010: Examine the various kinds of atmospheric humidity and their associated forms.

2011: (a) Give an account of global distribution of precipitation. (b) “Contemporary global climate change is an anthropogenic phenomenon.” Discuss
2012: Compare and contrast tropical cyclone and temperate cyclone. (12 marks)

2012: Classify airmass and explain how ‘cP’ airmass affects global climate (400 words)

2012: Impact of Cryosphere on global climate. (250 words)

2013: Differentiate Storm Surges and Seiches. (150 words)

2013: With suitable examples, bring out the impact of local winds on the climate of an area.

2013: Discuss Dew point and the various forms of condensation. (250 words)

iii) Oceanography

1991: Draw a hypsographic curve to represent the major physiographic units of the ocean and comment on their permanently.

1992: No question.

1993: Give a reasoned account of the distribution of salinity in the oceans and partially enclosed seas.

1994: No question.

1995: No question.

1996: Explain the illustrate the ocean floor topography and give a detailed account of the Mid-Atlantic Ridge.

1997: Examine critically the theories of the formation of coral reefs and atolls.

1998: Explain and illustrate the submarine relief of the Atlantic Ocean.
1999 : No question.
2000 : No question.
2001 : No question.
2002 : No question.
2004 : Discuss the mid-Atlantic Ridge in terms of its origin extent and relief.
2005 : No question.
2006 : No question.
2007 : Discuss the different bases for classifying the ocean deposits and give a detailed account of pelagic deposits of the oceans.
2008 : Describe the ideal conditions for coral reef formation and discuss the glacial control theory of coral reef formation.
2009 : (a) Examine economic significance of the resources of the Continental shelf of the Indian Ocean.
2009 : (b) Comment on marine heat budget and the oceanic circulation system.
2010 : Ocean Deposits (Short Notes)
2010: Methods (Scientifically sound) of bathymetry and account of bottom topography of Atlantic Ocean.

2011: “Temperature, salinity and density differences in ocean water are the prime causes of ocean water circulation.” Elaborate. (30 marks)

2012: Different layers of ocean water above abyssal plain. (150 words)

2012: ‘Atolls present the most challenging explanation in the evolution of coral reefs’. Discuss (250 words)

2013: “Offshore Acoustic Study helped the development of the concept of sea floor spreading.” Explain. (250 words)

2013: Compare the Subsidence and Glacial control theories on the formation of coral reefs. (400 marks)

2013: Analyse the reasons for a comparatively poorer development of fishing grounds in tropical areas. (250 words)

**iv) Biogeography**

1991: No question.

1992: Present a classification of the soils of the world and give their economic significance.

1993: Define ecosystem and describe briefly its various components. Also discuss how and to what extent the modern man has affected the various types of ecosystems.
1994 : Indicate the major biotic regions of the world and discuss the ecological aspects of the monsoon region.

1995 : ‘Man must realize the importance of maximizing agricultural production without destroying the ecological basis on which our entire food production system rests.’ Explain with examples.

1996 : No question.

1997 : No question.

1998 : No question.

1999 : Discuss the relevance of ‘watershed’, as an ecosystem for the purpose of sustainable development.

2000 : No question.

2001 : Discuss the concept, components and functioning of an ecosystem.

2002 : Write in detail on the concept of biosphere as an ecosystem.

2003 : No question.

2004 : No question.

2005 : No question.

2006 : No question.

2007 : No question.

2008 : No question.

2009 : Give a brief account of the principal land biomes and their latitudinal distribution.
2010 : Floristic kingdoms based on their global distribution (Short Notes)

2010 : Account of the structure of ecosystem and describe its functional aspect.

2011 : Define the term biome. List the terrestrial biomes and describe the characteristics of Savanna biome. (30 marks)

2012 : Major components of IGBP. (150 words)

2012 : Adaptation and distribution of animals in the Ethiopian realm. (400 words)

2013 : Uniqueness of fauna in the Notogean realm. (150 words)

2013 : Bring out the relationship between climate and vegetation in the Mountain Biome. (250)

v. Environmental Geography

2000 : No question.

2001 : No question.

2002 : Write an essay on ‘sustainable development’ from the perspective of geography.

2003 : No question.

2004 : How would the impact of global warming differ from one part of the earth to another? Give a reasoned account.

2005 : Bring out the major problems of environmental pollution at global scale and suggest measures to check it.
2006 : Discuss the global ecological imbalances and their managements.

2007 : No question.

2008 : No question.

2009 : Explain factors contributing to the Global Climate Change.

2010 : No Question

2011 : No Question

2012 : Discuss how different types of mining lead to different types of environmental problem (400 words)

2013 : Impact of Pleistocene Ice Age on the crust of the Earth. (150 words)

2013 : Types of endemic plants and their degree of vulnerability to extinction. (150 words)

2013 : What are the characteristics that make CHC a serious threat to the ecosystem? Give examples. (250 words)

2013 : Explain the levels of Noise pollution and the legislative measures to control it. (400 words)

2013 : “Urban Solid Waste Management poses the greatest challenge in Metropolitan planning.” Elaborate. (250 words)
i) Perspectives in Human Geography:

1991: Explain the major contribution by Arab geographers of the early medieval period in the development of geographic thought.

1992: Give a comparative assessment of the works of Humboldt and Ritter leading to the foundation of modern geographical thought.

1993: No question.

1994: Examine critically the concepts of ‘determinism; and possibilism. Bring out the significance of regional concept.

1995: Discuss the contributions of Al Biruni towards the development of geographical knowledge.

1996: “The emergence of Behavioural Geography was due to the disillusionment with axioms on which models were based and the axioms were far removed from reality”. Comment.

1997: Critically examine the concept of dualism with special reference to physical versus human geography.

1998: What is understood by quantification in Geography? Discuss the significance of quantification in modern geographical studies with examples.
1999: Describe the sequence of major paradigm shifts in geographic thought during the twentieth century.

2000: No question.

2001: Discuss the concept and application of systems analysis in human geography.

2002: No question.

2003: Present a critical analysis of human and welfare approaches in Human Geography.

2004: Distinguish between radical and welfare approaches in geographic studies.

2005: No question.

2006: No question.

2007: No question.

2008: No question.

2009: (a) ‘Quantitative Revolution and model building provided an empirical basis for geographical research’ - Elaborate.

2009: (b) Provide a broad classification of world cultural regions.

2010: Critically examine the method of deriving Human development index.

2010: Critically examine the changing perspective of the concept of areal differences.

2011: Welfare Approach in Human Geography (12 marks)
2011 : Discuss the impact of positivism in paradigm shift in Geography (30 marks)

2012 : No Question

2013 : “Ellen Churchill Semple is an ardent supporter of Determinism.” (150 words)

2013 : Explain the parameters for assessment and the spatial pattern of Human Development Index in the world. (250 words)

2013 : Relevance of Heartland theory in Contemporary world. (150 words)

ii) Economic Geography

1991 : Examine the world patterns of industrial development and explain the problems of industrial development at national levels.

1992 : No question.

1993 : Give an account of the agricultural typology of the world as presented by Whittlesey and critically examine the parameters used in its delineation.

1994 : No question.

1995 : No question.

1996 : Examine the bases of classification of agricultural regions as proposed by Whittlesey and explain the causes for the essential difference between intensive subsistence
tillage with rice dominant and without rice in the crop association.

1997: “Water is a scarce resource in plenty”. Comment and discuss its importance in the balanced habitat development. Support your answer with examples from Asia.

1998: Explain the term resource management. Discuss its relevance in the context of global resource scarcity and the future of mankind.

1998: Examine the impact of advanced agricultural technology on environment. Support your answer with examples.

1999: How far do the patterns of economic development and those of human development correspond with each other in the world? Illustrate your answer with examples.

2000: No question.

2001: Examine the spatial patterns of development disparity prevailing in the world.

2002: No question.

2003: No question.

2004: No question.

2005: Discuss Weber’s theory of industrial location, and assess its relevance in the present-day context.

2006: No question.
2007: Explain the concept of sustainable development and propose a model for agricultural development.

2008: Discuss the views of von Thunen on agricultural location.

2009: (a) Discuss the consequences of Climate Change on agriculture and food security, and on the Coastal Zones of the world.

2009: (b) Provide a geographical account of global production and distribution of food.

2010: Famine to a considerable extent, is a man made Hazard. Elaborate.

2010: Discuss the role of WTO in determining the pattern of World Trade.

2011: Mention the agriculture regions as classified by Whittlesy and discuss their relevance. (150 words)

2012: Problems faced by industries which developed due to inertia. (150 words)

2012: Impact of failure of Monsoon on Gujarat Agro-climate zone. (20 words)

2012: Locational significance of Rotterdam European economy. (250 words)
2013: Role of Venezuela in the production and export of oil. (150 words)

2013: Countries most affected in case of shut-down of Nuclear power. (150 words)

2013: Discuss the changing pattern of production and export of Coffee in the world. (250 words)

2013: Analyze the causes for changes in the pattern of world trade. (400 words)

iii) Population and Settlement Geography

1991: Trace and account for the various trends of population growth in the world during the present century.

1992: Citing suitable examples from India, explain the role of site and other physical factors in determining the types and patterns of rural settlements.

1993: Discuss the major international streams of migration in the world in recent times and account for the relationship that exists between population pressure areas and migration prospects.

1994: No question.

1995: Examine the theories about population control and explain the relative merits of these theories in limiting population growth.

1996: No question.
1997: No question.
1998: No question.
1999: Bring out the contrast between the internal structure of the pre-industrial and industrial cities.
2000: Discuss the causes and consequences of population migration.
2001: Bring out the main points of difference between the central place theories of Christaller and Losch.
2002: No Question.
2003: Examine the concept of sphere of urban influence and discuss the qualitative and quantitative methods used in its delimitation.
2004: No question.
2005: No question.
2006: In Urban geography, what are the concepts of primate city and Rank Size Rules?
2007: Give an account of functional bases to central place hierarchy.
2007: Write a note on the parameters used to describe the demographic transitions in the developing countries like India.
2008: Discuss the social and economic theories of population growth.

2008: Describe the laws of international boundaries and frontiers.

2009: What are the causes and consequences of environmental degradation in India’s industrial areas? Give specific examples.

2009: Discuss the impacts of globalization on India’s industry and agriculture sectors.

2010: Identify the regions affected by Chikangunya with the help of sketched map and bring out the regional pattern of the disease.

2010: How does formation of national park help ecological restoration and conservation and explain with suitable example.

2011: Secondary cities in the context of urbanization in developing world (12 marks)

2011: Population and Food security (12 marks)

2011: Critically examine the salient feature of Central Place Theory propounded by Christaller and Losch. (30 marks)

2012: Relevance of distance decay principle in Indian cities. (12 marks)

2012: Impact of migration on urban demography (12 marks)
2012 : Similarities in the population distribution of southern
continents and reasons for the same. (12 marks)
2012 : Status of infant mortality rate in the world. (12 marks)
2012 : Evaluate the various models on population density
distribution in urban centres. (30 marks)
2012 : ‘Though 70% of Indian population is rural urban
planning is crucial to the development of India’. Discuss.
(30 marks)
2012 : Impact of changing fertility ratio on world population
distribution. (20 words)
2012 : ‘Colonial forces resulted in the primate pattern of urban
process in most Southeast Asian Countries.’ Discuss (20 words)
2012 : Regional shift in the world urbanisation after 1950 and
the varied characteristic of urban process. (20 words)
2013 : Relevance of Heartland theory in Contemporary world.
(150 words)
2013 : What is Geriatrics? What are the problems associated
with Geriatric population? (250)

iv Regional Planning

1991 : No question.
1992 : No question.
1993 : No question.
1994 : Oil has placed in the hands of Arab nations a
tremendous geopolitical weapon with which to wield
power. Comment.
1995: No question.

1996: “Without the Mediterranean Europe could not be held, without the Middle East the Mediterranean could not be held”. Discuss.

1997: No question.

1998: No question.

1999: No question.

2000: What is a region? Discuss the types of regions and methods of regionalization.

2001: Critically examine the role of growth centres and growth poles in regional development process.

2002: To what extent do the regional patterns of economics development and human development in the world correspond with each other? Highlight situations of departure, in particular.

2003: No question.

2004: Discuss various strategies for correcting regional imbalances.

2005: What is a region? Discuss the methods of regionalisation.

2006: What is the concept of region? Discuss the types of regions.

2007: No question.

2008: No question.
2009 : Highlight the significance of environmental issues in Regional Planning.

2011 : Ingredients of Sustainable Development (12 marks)

2011 : Enumerate alternative strategies of planning for backward regions.

2012 : Salient feature of watershed planning and its advantages and disadvantages. (20 words)

2013 : Misra’s theoretical stages of Rural-Urban Process. (150 words)

V. Models, Theories and Laws in Human Geography

1991 : No question.

1992 : Discuss on the theories of Industrial location propounded by any two of the following: Weber, Hoover and Smith.

1993 : Define umland and discuss, with specific examples, the criteria for its delimitation.

1994 : Discuss Van Thunen’s model of agricultural land use and examine if the model is applicable to India.

1995 : Explain and illustrate the models of internal structure of cities as proposed by Burgess and Hoyt. Mention also the limitations of these models.

1996 : No question.

1997 : Critically examine Alfred Weber’s Theory of the Location of Industries.
1998 : No question.
1999 : No question.
2000 : Explain the basis and applicability of Christaller's Central place theory. Bring out the recent modification.
2001 : No question.
2002 : No question.
2003 : Critically examine the stages of Economic Growth Model propounded by Rostov. Illustrate your answer with suitable examples.
2004 : To what extent are the Heartland and Rimland theories helpful in understanding the world political situation today ? Express your opinion clearly.
2005 : Examine the Heart -Land theory , and assess its merits and demerits.
2006 : Write down main agriculture types and their associated features with special reference to Whittlesey. Show these regions on the World map provided to you.
2007 : No question.
2008 : No question.
2009 : No question.
2010: No question.
2011: Isodapne in the Theory of Industrial Location. (12 marks)

2011: Distinguish between boundaries and frontiers. Identify different types of boundaries. (30 marks)

2011: Discuss Systems Approach and its applicability in Geography. (30 marks)

2012: No Question.

2013: What are the basic postulates in the Central Place Model of Christaller? (250 words)

PAPER II
GEOGRAPHY OF INDIA

i) Physical Setting


1991: Elucidate the character of the Himalayan Rivers and examine their role in the Indian plains.

1992: Explain the characteristics and productivity of the ‘Regular’ back soils of India. (Short notes).

1992: Major issues involved in the Sino-Indian boundary conflict. (Short notes).

1992: Discuss the major characteristics of the Indian monsoon with special emphasis on the causative factors.
1993: “India presents an example of unity in diversity”. Elucidate this statement in the context of India’s physical and human aspects.

1993: Delineate the flood-prone areas of India by drawing a sketch map in the answer book and discuss the causes and consequences of floods in the North Indian plains.

1994: Explain the drainage characteristics of Peninsular India. (Short notes).

1994: Discuss the recent theories put forward to explain the origin and mechanism of the Indian Monsoon.

1995: Explain the factors responsible for uneven distribution of rainfall in India (Short notes).

1995: Draw a sketch-map in your answer-book to delineate the main physiographic regions of India and provide a reasoned account of the relief and structure of the Himalayan region.

1996: Examine the origin and characteristics of the antecedent drainage system of the Himalayas. (Short notes).

1996: Draw a sketch-map in your answer-book to delineate the main climatic regions of India and discuss the important climatic characteristics of each region.

1997: Discuss the origin and main geomorphic feature of Thar Desert of India. (Short notes).

1998: No question.

1999: Explain the rise of the Himalayan ranges. (Short notes).

2000 : Describe the structure and relief feature of peninsular India.

2001 : Discuss the relief features of Indian Northern Plains.

2002 : Explain the Origin, Mechanism and characteristics of Summer Monsoon in India.

2003 : Highlight the salient differences between the Himalayan and the Peninsular drainage Systems.

2004 : Discuss the role of spatial pattern of rainfall and temperature in the delimitation of climatic regions of India, especially with reference to Stamp’s climatic regionalization.

2005 : No question


2007 : Explain the different views put forth about the origin of Himalayas and divide Himalayas into vertical division

2008 : Distinguish between the Himalayan and the peninsular drainage systems.

2009 : Distinguish between the West and East coast of India in terms of their evolution, present topography and drainage pattern.
2010: Explain Himalayan orogeny and illustrate how the process has affected the geomorphic characteristics of macro division of Himalayas.

2011: Present a comparative analysis of the regimes of Himalayan and Peninsular rivers of India and examine their implications in the irrigation system of the country.

2011: Identify the major biosphere reserves of India and discuss their role in the conservation of forest and wildlife.

2012: Explain the structure characteristics of the Deccan Plateau. (30 marks)

2012: Discuss the role of spatial pattern of rainfall and temperature in the delimitation of climatic regions of India, specially with reference to stamp’s climatic regionalization (30 marks)

2013: Explain the topographical and structural characteristics of the Siwalik Range. (150 words)

2013: Discuss the mechanism of Indian Monsoon. (150 words)

2013: Identify the earthquake-prone zones and suggest strategy for their management. (250 words)

ii Resources

1991: No question.
1992 : Explain the distribution of major mineral resources of the Deccan plateau together with the extent of their exploitation.

1993 : Explain the geographical factors responsible for the growth of mangrove vegetation in India and discuss its role in coastal ecology. (Short notes).

1993 : Critically examine the marine resources of India and discuss the problems encountered in their development.

1994 : Examine the forest resources of India and explain the principles of conservation which could be applied to improve the forest wealth of India.

1995 : Examine the origin and characteristics of the soils of the North Indian Plain. (Short notes).

1995 : Examine the fossil fuel resources of India with particular reference to the present and future demands for energy.

1996 : Discuss the distribution and characteristics of the evergreen forest in India. (Short notes).

1996 : Critically examine the metalliferous mineral resources of India with particular reference to their present and future demand.

1997 : No question.

1998 : Examine the resources of Andaman and Nicobar Island. (Short notes).

1998 : Bring out the present day position of exploitation and processing of nuclear minerals in India.

1998 : Examine the pattern of distribution and mode of exploitation of bauxite in India.
1999 : Examine the need for conservation of biotic resources in India. (Short notes).

2000 : No question.

2001 : Explain the sequence of vegetation zones of the Himalayas. (short notes)

2002 : No question.

2003 : No question.

2004 : Identify the important biotic-resource of India. Highlight, in brief the problems and remedial measures of biotic resource conservation in India.

2005 : “Non convention energy is the energy of the future in India.” Justify this statements.

2006 : No Question

2007 : Discuss the need of conservation and utility of water resource in India.

2008 : No Question

2009 : Discuss the formation and their distribution of the major soil types of India.

2010 : Discuss the spatial distribution of nature vegetation in India with help of sketch map.

2010 : Discuss the emerging pattern of surface water utilization in India.
2011: Give an account of potentiality and prospects of development of marine resources of India. (30 marks)

2012: Delineate the mineral belts of India and mention their distinctive features. (30 marks)

2013: Delineate the coalfields of India and mention their distinctive features. (150 words)

iii. Agriculture

1991: What is meant by ‘Operation Flood’? Discuss the manner of its implementation and its success in India. (Short notes).

1991: Discuss the role of animal husbandry in the agricultural economy of India with special reference to any one region.

1992: Explain the distribution and characteristics of dry zone agriculture. (Short notes).


1992: Discuss the role of social forestry in any one region of India. (Short notes).

1993: Explain the role of institutional factors in the development of agriculture in India. (Short notes).

1994: Differentiate between agricultural efficiency and agricultural productivity and discuss the methods used in the determination of agricultural efficiency in India.
1995 : Discuss the role of infrastructural, scientific and technological developments in the recent transformation of Indian agriculture.

1996 : Discuss the importance of irrigation in Indian Agriculture and describe the methods of irrigation practiced in either the Ganga Valley or the Karnataka-Maharashtra region.

1997 : Examine the significance of social forestry in the rural economy of India. (Short notes).

1997 : Discuss the impact of green revolution on the agricultural production in India. (Short notes).

1997 : Divide Peninsular India into agricultural regions. Explain the basis of such a regionalisation.

1998 : Discuss the role of institutional factors in the efficiency and productivity of agriculture in India. (Short notes).

1998 : Discuss the cropping patterns in different agricultural regions of India.

1999 : Write an essay on the role of animal husbandry and household industries in the development of rural economy in India.

2000 : Critically examine the role of infrastructural and institutional factors in the recent transformation of Indian agriculture.

2001 : Examine the geographical basis of agro-climatic planning regions of India.

2002 : Critically evaluate the dual impacts of green revolution in India.
2003: Give an account of the success and prospects of Blue Revolution with comments on its impacts on rural economy of India.

2004: No Question

2005: Present an account of the success and constraints of White Revolution in India

2006: Discuss the problems and prospects of dry zone agriculture in India and highlight strategies schemes for its development.

2007: “The institutional factors have grip over the crop pattern and crop productivity on Indian agriculture.” Justify.

2008: Discuss the bases of identifying agro-climatic zones and explain the core strategies for agricultural development.

2009: No Question

2010: Assess as to how surface water utilization affects food production and food security in the country.

2011: Discuss the potentiality and status of aquaculture in the Ganga Plain (30 marks)

2012: Divide India into agriculture regions and critically examine the role of ecological and human factors responsible for transformation of agriculture economy in any one region.(30 marks)

2013: Explain the method of delineating crop-association regions with reference to India. (150 words)
2013: Discuss the potentiality and present status of horticulture in the Western and Central Himalaya. (250 words)

2013: Discuss the role of institutional factors in shaping the pattern of Indian agriculture. (150 words)

2013: Define agricultural productivity. Mention the methods of its measurement and bring out the disparities in its regional distribution. (150 words)

2013: Snags in the Food Security Policy of India

**iv Industries**

1991: Discuss the advantages and disadvantages of Industrial Centralisation with specific examples. (Short notes).

1992: Types of rural industries and their basis in Rajasthan, Gujarat region. (Short notes).

1993: Growth of agro-based industries in Uttar Pradesh and Bihar. (Short notes).

1993: Identify the important periods of industrialization in India and analyses the character of the two most developed industrial regions.

1994: Identification of industrially backward areas and problems in their development. (Short notes).
1994: Draw a sketch-map to delineate the major industrial complexes of India and discuss their important characteristics.

1995: Recent changes in India’s basic industrial policy. (Short notes).

1995: Examine critically the factors for the localization of iron and steel industry in India with special reference to the newer centres of steel production.

1996: Analyses the factors for the localization of either the cotton textile or the sugar industry in India and note the recent trends in the industry.

1997: Analyse the locational pattern of cement industry in India (Short notes).

1997: Critically examine the locational pattern and trend of production of forest based industries in India.

1998: Examine the importance of industrial estates in India (Short notes).

1998: Bring out the trends in the development of fertilizer industry in India.

1999: Discuss the factors for the localisation of either the cement or the cotton textile industry in India and analyse the pattern of its distribution.

2000: Discuss the growth, location and distribution of iron and steel industries in India.
2001: Describe the growth, characteristic, and distribution pattern of India’s industrial regions.

2002: No question.

2003: No question.

2004: No question.

2005: No question.

2006: Trace the evolution of industries in India and evaluate the role of multinational and liberalisation policies in this context.

2007: Bring out the impact of multinational and liberalisation on the Industrial Economy/Pattern of India.

2008: Explain the factors promoting the rapid growth and development of the automobile industry in India giving suitable examples.

2009: Examine the role of raw materials in the location of the Iron and Steel Industry in India. Illustrate your answer with suitable examples.

2010: No question

2011: Assess the scope and development of Pharmaceutical Industry in India. (30 marks)

2012: Describe the development of textile industries in India. (20 marks)
2012: Identify the spatial pattern of agro-industrial regions of India. Analyse the potentiality of Malwa as an important agro-industrial region of the future. (20 marks)

2013: Identify the main industrial clusters of India and account for their development. (150 words)

2013: Explain the role of multinational in globalization of industries in India. (150 words)

2013: Discuss the problems in realization of benefits of globalization and liberalization in industrial sector of India. (150 words)

v. Transport, Communication and Trade

1991: Analyse the role of different types of transport in the commodity flows of the Delta regions of East India.

1991: Give an account of the major groups of agro based industries of India. Critically examine their contribution to regional economy and rural employment.

1992: Discuss the basis on which the current network of Airways is built in India, highlighting its role in the overall transportation milieu.

1993: Discuss briefly the overall pattern of inter-regional trade in India.

1995 : Role of rural market centres in promoting intra and inter-regional trade. (Short notes).

1996 : Geographical impediments in the development of inland waterways in India. (Short notes).

1997 : Discuss the nature of commodity flows in India. (Short notes).

1998 : Evaluate the feasibility of the proposed Ganga-Cauveri Drainage link. (Short notes).

1998 : Explain the role of railways as a unifying factor in Indian economy. (Short notes).

1999 : Critically examine the complementary and competitive character of the Indian rail-routes and the road network.

2000 : No question.

2001 : No question.

2002 : Discuss the oil and natural gas pipeline networks in India. Highlight their complementary role in regional development.

2003 : Discuss the growing importance of ports in foreign trade of India.

2004 : Give a comparative account of the development of River Water Transport in Pre-colonial and Post-independence in regional development.

2005 : What is the Golden Quadrilateral? Discuss the progress made in its execution and impacts on India economy.

2006 : No Question -
2007: No Question
2008: No Question
2008: No Question
2009: No Question
2010: No Question
2011: Assess the growing importance of air transport in India and examine its role in the regional development of the country.
2012: Examine the role of road transport in regional development taking suitable examples from an area you have studies in detail. (20 marks)

2013: No Question

i. Cultural setting:
1991: Identify the major tribal communities in India by regions and examine the problems common to all of them and the ways of their solution.
1992: Examine critically the major factors responsible for the growth of two highest population density zones in India. Salient features of Tribal area planning. (Short notes).
1993: Elucidate the current population policy of India and comment on its effectiveness. (Short notes).
1993: Analyse the changes in the literacy rate during the post-independence period in India. (Short notes).
1994: Elucidate the population density types in India. (Short notes).

1995: Discuss the problems of tribal areas in India. (Short notes).

1996: Elucidate the measures taken to limit the growth of population in India. (Short notes).

1996: Name the million cities of India according to 1991 census and critically examine the factors for unprecedented growth in their population in the last 40 years.

1996: Explain the salient features of the tribal development programme with particular reference to either Dandakaranya or Chotanagpur.

1997: Examine the genesis of racial diversity in India. (Short notes).

1997: Critically examine the factors affecting the distributional pattern of population in India.

1998: Critically examine the problems and prospects of tribal areas in India.

1999: Discuss the role of languages in regional consciousness and national integration in India.

2000: Analyse the distribution of population in India in the perspective of nature resources and identify the over-population and under-population region in the country.

2001: Elucidate the sex and age structure of the population of India. (short notes)
2002: In what way the language, religion and tradition can form the basis of cultural regionalisation of India?

2003: No question.

2004: No question.

2005: No question.

2006: No Question

2007: No Question

2008: No Question

2009: No Question

2010: No Question

2011: No Question

2012: Factors affecting innovation diffusion. (12 marks)

2012: Linguistic diversity in North-eastern states. (12 marks)

2012: Geographical reasons for the variation in literacy from state to state in India. (12 marks)

2012: Evaluate the population policy of India and examine its relevance to the nation’s population control. (30 marks)

2012: How are structure affects dependency ratio? Explain with suitable examples. (20 marks)

2013: What do you understand by ‘Young India’? How can the present state of population composition be converted into an asset for the country? (150 words)
2013 : Describe the impact of linguistic diversity on the development of various regions of India. (150 words)

## ii Settlements

1991 : Analyse the extent of urban population growth in India in the last four decades. (Short notes).

1991 : Explain the basis and characteristics of Dispersed Settlements in the N.E. Region of India. (Short notes).

1991 : Explain the hierarchical pattern of Indian cities and discuss their growth and distribution.

1992 : Major characteristics of the rural urban fringe. (Short notes).

1993 : Salient features of Tribal area planning. (Short notes).

1993 : Elucidate the current population policy of India and comment on its effectiveness. (Short notes).

1993 : Analyse the changes in the literacy rate during the post-independence period in India. (Short notes).

1994 : Elucidate the population density types in India. (Short notes).

1995 : Discuss the problems of tribal areas in India. (Short)

1995 : Elucidate the measures taken to limit the growth of population in India. (Short notes).

1996 : Name the million cities of India according to 1991 census and critically examine the factors for
unprecedented growth in their population in the last 40 years.

1996 : Explain the salient features of the tribal development programme with particular reference to either Dandakaranya or Chotanagpur.

1997 : Examine the genesis of racial diversity in India.
      (Short notes).

1997 : Critically examine the factors affecting the distributional pattern of population in India.

1998 : Critically examine the problems and prospects of tribal areas in India.

1998 : Discuss the role of languages in regional consciousness and national integration in India.

1999 : No question.

2000 : Describe the salient characteristics of the morphology of Indian cities.

2001 : No question.

2002 : No question.

2003 : No question.

2004 : ‘Economic characteristics of an area exert a much more direct effect upon its population patterns than do the physical characteristics’. Explain with examples.

2005 : No question.

2006 : Explain the processes and patterns of regional disparities in India and suggest measures for bringing about the regional balances.
2006: Explain the morphology of Indian cities in the background of existing morphological models.

2007: “Slums are urban menace” Elucidate with Indian cities as examples.

2008: ‘Unplanned urban development has created numerous problems.’ Comment.

2009: “There is no sharp divide where an urban settlement stop and rural area begins.” Analyse the statement with reference to the sprawl of Indian cities.

2009: How do the ‘Push’ and ‘Pull’ factors operate for the emergence of slums in the metropolises of India?

2010: Outline the role of class I and II towns in urban process of India and indicate their contribution towards balanced urban development.

2011: Discuss the problem of environmental degradation generated by urban wastes in India.

2012: Morphological characteristics of villages situated in hilly region. (12 marks)

2012: Give an account of geographical conditions responsible for the development of different types of rural settlements in India (30 marks)
2013: City-regions as territorial unit for regional planning and development

2013: Define slums and explain their problems. (150 words)

2013: Discuss the objectives of ‘Vision 2020’ in creation of viable village complex in India for ‘Inclusive Rural Development’ programme. (150 words)

2013: Describe how urbanization creates air and water pollution in India. (150 words)

iii. Regional Development and Planning

1991: Discuss the changes brought about in Indian agriculture by the successive Five-Year Plans, mentioning their successes and failures.

1992: Examine critically the advantages and disadvantages of multi-level planning with special reference to India.

1993: Discuss briefly the overall pattern of inter-regional trade in India. (Short notes).

1994: Discuss the growth of regional planning in India and account for regional disparities in development.

1995: Give the hierarchy of planning regions and bring out the role of metropolitan planning in fostering regional development in India.

1996: Explain the criteria used in the identification of drought-prone areas in India. (Short notes).

1996: Magnitude of regional imbalances in economic development in India. (Short notes).

1997: Evaluate the benefits of Block Level development planning in India. (Short notes).
1997 : Draw a sketch map of India showing major river basins. Examine the feasibility of the concept of river basins as a planning unit.

1998 : No question.

1999 : Nature and utility of multi-level planning in India.
1999 : Analyse the causes of regional disparities in the economic development of India and suggest measures for their removal.

2000 : No question.

2001 : Provide the geographical background and characteristics of the distribution of Hill Stations of India. (short notes)
2001 : Explain the concept of watershed and its utility in land management.

2002 : Give a reasoned account of regional disparities in economic development in India and bring out the contribution of decentralised planning in solving this problem.

2003 : Discuss the programmes and policy development of dry areas in India.

2003 : Present an account of the experience of regional planning in India in the context of Damodar Valley.

2004 : Examine the regional development policy of India in various Five Year Plans.

2005 : Give an account of the distribution of flood-prone areas of controlling the impact of floods in the country.
2005 : Examine the relationship between geography and regional planning

2005 : Discuss the experiences of regional planning in India in the context of the National Capital.

2006 : Present an account of tribals, tribal areas and their problems in India.

2007 : No Question.

2008 : Discuss the problems and prospects of development of catchment and command areas.

2009 : No Question.

2010 : What is regionalism and Discuss how regionalism affects the development process with suitable examples.

2011 : Discuss the spatial pattern of intra-regional migration in India and examine its implications in regional development (30 marks)

2011 : Identify the ravine-affected areas in India and discuss the environmental and economic impact of their reclamation (30 marks)

2012 : Elucidate the role of Tribal Development Blocks in the development of Tribal areas. (20 marks)

2013 : Planning and development of ‘Tribal Regions’ in India. (150 words)
2013: Enumerate the basic indicators of development and explain their application in identification of the spatial diversity in development in India. (150 words)

iv Political Aspects:

1991: Discuss the political issues involved in the ‘Tin Bigha’ or Siachen dispute. (Short notes).

1992: No question.

1993: Examine critically the geographical basis of the Indian federation.

1994: Problems of militancy in India’s border states. (Short notes).

1995: Importance of India in the geopolitics of the Indian Ocean realm. (Short notes).

1996: Geographical basis of the Indian Federation. (Short notes).

1997: Explain the basis and consequences of the establishment and implementation of recommendations of the State Re-organisation Commission in India since 1950s.

1998: Discuss the geopolitical importance of Indian Ocean area. (Short notes).

1999: Regional consciousness versus national integration in India. (Short notes).

2000: No question.
2001 : Discuss the geopolitical importance of India’s Land Boundaries.
2002 : No question.
2003 : No question.
2004 : No question.
2005 : No question
2006 : No Question
2007 : No Question
2008 : Critically examine the bases of state reorganisation in India since independence.
2009 : No Question
2010 : No Question
2011 : No Question
2012 : No Question
2013 : No Question

v. Contemporary Issues :
1991 : Critically examine the relationship between deforestation the last four decades. (Short notes).
1992 : No question.
1993 : No question.
1994 : Examine the nature and extent of environmental degradation in the Himalayas. (Short notes).
1994 : Explain the salient features of Sardar Sarovar Project and elucidate the controversy related to its implementation. (Short notes).

1995 : No question.

1996 : No question.

1997 : Evaluate the nature of ecological problem in India and suggest measures for measurement.

1998 : No question.

1999 : No question.

2000 : Analyse the role of India in the geo-politics of the Indian Ocean region.

2001 : Explain the geographical characteristics of the regional distribution of earthquakes in India.

2002 : Explain the causes, impacts and remedial measures of earthquake disaster.

2003 : Explain the causes of regional disparities in economic development of the India.

2004 : Explain the causes, impacts and remedial measures of flood-hazards in Middle and Lower Ganga Plain.

2005 : No question

2006 : Explain the processes and patterns of regional disparities in India and suggest measures for bringing about the regional balances.

2007 : Discuss environmental problems of India in the context of rapid economic development and population growth.
2008: No question

2009: What are the causes and consequences of environmental degradation in India’s industrial areas? Give specific examples.

2009: Discuss the impacts of globalization on India’s industry and agriculture sectors.

2010: Identify the regions affected by Chikangunya with the help of sketched map and bring out the regional pattern of the disease.

2010: How does formation of national park help ecological restoration and conservation and Explain with suitable example.

2011: Analyse the causes of desertification in India. Represent the desertified areas of the country on a sketch map and suggest remedial measures to control it.

2012: Examine the origin, dimension and implications of the Sino-Indian border dispute. (30 marks)

2012: Examine the relevance of linkage of rivers in India with special reference of Ganga-Cauveri linkage canal (30 marks)

2013: Comment on the basis of creation of new States in India in 2000. (150 words)

2013: Write a note on geopolitics of the Indian Ocean realm. (250 words)
PAPER II

Mark on the outline map of India supplied any ten of the following entries. Write brief notes not exceeding 30 words on the significant aspect of each entry: 6x10 = 60

1991:
1. Bhadravati
2. Chumbi Valley
3. Lakshadweep
4. Palk Strait
5. Hirakud Reservoir
6. Parasnath Hill
7. Port Blair
8. Main Boundary Fault
9. Bombay High
10. Areas receiving less than 25 cm (10") rainfall

1992:
1. Kalpakkam
2. Shyok Valley
3. Salsetts Is.
4. Adam’s Bridge
5. Farakka Barrage
6. Rajmahal Hills
7. Itanagar
8. Somnath
9. Khetri
10. Alignment of Konkan Railway under construction

1993:
1. Pokaran
2. Banihal
3. Kolleru Lake
4. Minicoy Is.
5. Maikal Range
6. Sabarmati River
7. Nunmati
8. Bababudan Hills
9. Singrauli Coalfield
10. 35°C June Isotherm

1994:
1. Barren Island
2. Marmagao
3. Agartala
4. Vadodara
5. Tapi
6. Rana Pratap Sagar
7. Kavararatti Island
8. Leh  
9. Badrinath  
10. Atomic Power Project in Uttar Pradesh

1995:
1. Kolleru lake  
2. Maikal range  
3. Palghat  
4. Darjeeling  
5. Ellora  
6. Rann of Kachchh  
7. January Isotherm of 20°C  
8. Ghaghara river  
9. Bokaro  
10. Corbett Park

1996:
1. Malwa Plateau  
2. Pamban Island  
3. Zaskar Range  
4. The Godavari  
5. Koyana Project  
6. Gold mines of India  
7. Ranthambore  
8. Barauni  
9. Nanda Devi biosphere  
10. Rourkela

1997:
1. Mettur Dam  
2. Kaziranga Park  
3. Loktak Lake  
4. Puri  
5. Vindhyap Mountains  
6. Mahanadi  
7. Itanagar  
8. Haldia  
9. Sunderbans  
10. Khetri copper mines

1998:
1. Hirakud Dam  
2. Konkan Coast  
3. Satpura Range  
4. Narmada River  
5. Lava Region  
6. Pradip Port  
7. Visakhapatnam  
8. Lucknow  
9. Chilka Lake  
10. Bangalore

1999:
1. Farakka barrage  
2. Kavaratti
3. Manali-Leh highway
4. Majuli riverain island
5. Rajmahal hills
6. Palghat gap
7. Chhatisgarh plain
8. Luni river
9. Karwar
10. Anadpur Sahib

**2000:**
1. Cauvery
2. Narmada River
3. Chilka lake
4. Nagarjunsagar
5. Agra
6. Cochin
7. Satpura range
8. Aravalli hills
9. Bombay High
10. Kaziranga National Park
11. Kargil region
12. National Highway No. 7

**2001:**
1. Harishchandra range
2. Bhima River
3. Semi Arid Climatic zone
4. Manas National Park
5. Anai Mudi
6. Sambhar lake
7. Digboi oil field
8. Baghelkhand
9. National Highway No.8
10. Anjar
11. Red and Yellow soil area
12. Minicoy Island

**2002:**
1. Blue Mountain
2. Tawa river
3. Dallirajhara mines
4. Marmugao
5. Coimbatore
6. Kodaikanal
7. Wular lake
8. Rourkela
9. Konkan railway
10. Laterite soils
11. Gulf of Mannar
12. Rana Pratap Sagar

**2003:**
1. Loktak Lake
2. Elephanta Island
3. Kali Sindh River  
4. Ranikhet  
5. Girnar Hills  
6. Always  
7. Shillong Plateau  
8. Kolar Gold Mines  
9. Salem  
10. Rohtang Pass  
11. Gobind Ballabh Pant Sagar  
12. New Mangalore

### 2004:
1. Gulf of Kachchh  
2. Indravati river  
3. Mount Abu  
4. Ganga river waterway from Allahabad  
5. Dhauladhar  
6. Kudermukh  
7. Block Soils  
8. Nagarajun Sagar  
9. Bhuj  
10. Rajrappa fall  
11. Dimapur  
12. Gulmarg

### 2005:
1. Jawahar Lal Nehru Port  
2. Chandra Bhaga River  
3. Kiamur Range  
4. Dhalousie  
5. Ganga Sagar  
6. Indira Point  
7. Cardamom Hills  
8. Bombay High  
9. Nag Pahar  
10. Gersoppa Falls  
11. Pulicate Lake  
12. Kakinada

### 2006:
1. Malaygiri  
2. Sibsagar  
3. Khetri  
4. Sind River  
5. Kalakot  
6. Nathula Pass  
7. Renukoot  
8. Sabarigiri  
9. Surendranagar  
10. New Moore Island  
11. Javadi Hills  
12. Kolleru Lake

### 2007:
1. Najarjun Sagar
2. Dharmsala
3. Aizawl
4. Konkan Railway
5. Kovalam Beach
6. Periyar Wildlife Sanctuary
7. ICRISAT
8. Vishakhapatnam Port
9. Panna
10. Nuclear Fuel Complex
11. Gurgaon
12. Bodh Gaya

**Write Brief notes (not exceeding 40 words each)**

**2008:**
1. Butcher Island
2. Gopalpur Beach
3. Lavasa
4. Gandhisagar
5. Nam Dapha
6. Pampore
7. Mount Harrier
8. Barail Ranges
9. Palitana
10. NIO
11. Baltel
12. Pindari

**2009:**
1. Akarimota
2. Kolleru Lake
3. Van Tivu
4. Silent valley
5. Amravati River
6. Pirotan Island
7. Mangla
8. Meghnagar
9. Shipki La
10. Bhachau
11. The home of Sunderi
12. Origin of river Narmada
13. Gokak
14. Ken river
15. Bailadila
16. Bhavani Sagar Dam
17. Kutralam Falls
18. Dalma Hills
19. Dhanjori Hills
20. Rangit river

**2010:**
1. Narcondam or Narcondum
2. Kavvayi
3. Krishnapatnam
4. Shadnagar
5. Gahirmatha Beach
6. Point Calimere
7. Jaitapur
8. Parichha
9. Saltoro Kangri
10. Shencottah,
11. Banas
12. Falgu River
13. Sirpur or Sirpur Tandura
14. Sanand
15. Dras

2011:
1. Badami
2. Mandvi
3. Dodital
4. Yanam
5. Netarhat
6. Shamsabad
7. Lakshmantirth River
8. Bara-Lacha-La
9. Kakolat Fall
10. Singrauli
11. Daria Hills
12. Tree island

2012:
1. Manas
2. Bachau
3. Ganga river waterway from Allahabad
4. Indravati River
5. Amaravati River
6. Pir Panjal Ranges
7. Narkondam Island
8. Kharkai River
9. Kalahandi
10. Kakarapara
11. Murshidabad
12. Khetri
13. Pawapuri
14. Kolhan Highland
15. North Koel River

2013:
(1) Mishmi Hills
(2) Lipulekh Pass
(3) Beas River
(4) Rihand Dam
(5) Amarnath
(6) Rajgir
(7) Sindri
(8) National Highway No. 24
(9) Churk
(10) Indira Gandhi Canal