

GEOGRAPHY TEST SERIES 2021

By: **PRINCE MISHRA**

TARGET 300+

TEST Starts

Test Timings:
1:00 PM to 4:00 PM

29 NOVEMBER 2020

- ✓ Its uniquely designed test series to help the students score 300+ in Geography Optional
- ✓ Total 16 Test having Three Levels of Assessment
- ✓ In First Level focus will be on developing subject understanding
- ✓ In Second Level students will learn the art of interlinking of different topics
- ✓ Third Level will be strictly on the lines of present trends of Mains Examination
- ✓ Exhaustive Classes after each Test
- ✓ Answer Sheet Evaluation is strictly by faculty.
- ✓ Model Answer and other Study Materials will be given
- ✓ One to one discussion with students after the Answer Sheet Evaluation

PROGRAMME FEE: ₹ 12,000 + GST

Discussion: Same Day (4:30 PM to 7:30 PM)

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PROGRAMME DETAILS

- ◉ It's unique mix of Test Series & Content Enrichment.
- ◉ It will have three levels of assessment ie. Level 1, Level 2 and Level 3 to Test Aspirants.
- ◉ Each test will be followed by detailed discussion where focus will not be only to discuss answer but also try to inculcate critical thinking in Geography.
- ◉ Also Model Answers and relevant Study Materials will be provided after the Tests.
- ◉ Level 1 will be oriented to test the basic understanding of the subject and microscopic coverage of syllabus and also add on materials will be given for contents enrichment.
- ◉ Level 1 will consist of 8 Tests and each Test consists of 5 Questions.
- ◉ Level 2 is mainly focuses on interlinking of the topics with Contemporary Issues. In this stage exhaustive coverage of last one years Geography related current affairs will be done.
- ◉ Level 2 will consist of 4 Tests and each Test consists of 10 Questions.
- ◉ All the tests of Level 1 and Level 2 will have one additional question of India map marking.
- ◉ There will be exclusive map marking Live Session and pre-recorded video assistances for Map markings of Paper 2.
- ◉ Level 3 will be purely on the lines of UPSC Mains Examination.
- ◉ Level 3 comprised of 4 Full Length Tests.

TEST SCHEDULE

LEVEL 1

TEST - 1	29 November, 2020	Economic Geography + Population and Settlement + Models and Theories
TEST - 2	13 December, 2020	Perspectives in Human Geography + Regional Geography
TEST - 3	27 December, 2020	Geomorphology + Oceanography
TEST - 4	10 January, 2021	Climatology + Biogeography + Environmental Geography
TEST - 5	24 January, 2021	Physical Settings + Resources)
TEST - 6	7 February, 2021	Agriculture + Industry
TEST - 7	14 February, 2021	Cultural Settings + Settlements + Political aspects
TEST - 8	21 February, 2021	Transport, communication and trade + RDP + Contemporary Issues

LEVEL 2

TEST - 9	6 March, 2021	Geomorphology + Climatology + Oceanography + Physical Settings
TEST - 10	13 March, 2021	Perspectives in human Geography + Population & Settlement + Settlement + Regional Planning + RDP
TEST - 11	20 March, 2021	Economic Geography + Resources + Agriculture + Industry + Transport, communication and Trade + Models and Theories
TEST - 12	25 March, 2021	Biogeography + Environmental Geography + Contemporary Issues + Cultural Setting + Political Aspects

LEVEL 3 - FULL LENGTH TEST

TEST - 13	AFTER PRELIMS	Full Mock 1- Paper-1
TEST - 14	AFTER PRELIMS	Full Mock 1 - Paper-2
TEST - 15	AFTER PRELIMS	Full Mock 2 - Paper-1
TEST - 16	AFTER PRELIMS	Full Mock -2 Paper-2

LEVEL-1

Sub-Topic Listing

TEST NO. 1**29 NOVEMBER, 2020**

ECONOMIC GEOGRAPHY
+
POPULATION AND SETTLEMENT
+
MODELS AND THEORIES

1. Economic Geography:

- World Economic Development;
- Resources and distribution;
- Spatial variation of Energy crisis;
- Von Thunen's agricultural location model;
- Industrial location theories of Weber, Hoover and Smith.

2. Population and Settlement:

- Growth and distribution of world population;

- Spatial analysis of Demographic attributes worldwide;
- Disaster led migration;
- Language-Endangered Hotspot;
- Population theories of Malthus, Marx and DTT;
- Types and patterns of rural settlements;
- Environmental issues in rural settlements;
- City model by E.W.Burgess, Homer Hoyt and Harris and Ullman;
- CBD; Distance decay principle in Indian cities

TEST NO. 2**13 DECEMBER, 2020**

PERSPECTIVES IN HUMAN GEOGRAPHY
+
REGIONAL GEOGRAPHY

1. Thought

- Systems Analysis;
- Areal differentiation;
- Dichotomy and Dualism;
- Environmentalism;
- Positivism;
- Feminism;
- Quantitative revolution;
- Paradigms in Human Geography

2. Regional Planning:

- Concept of Region;

- Types of Region and methods of Regionalism;
- Perroux and Boudeville.

TEST NO. 3

27 DECEMBER, 2020

**GEOMORPHOLOGY
& OCEANOGRAPHY****1. Geomorphology:**

- Earth's Interior Structure;
- Origin and Evolution of the Earth's crust; Geomagnetism basics;
- Plate Tectonic theory;
- Sea floor Spreading;
- Convective cell Theory;
- Earthquake, Tsunami, Volcanoes, Hot spot, Mantle plume, Super Plume, Accreted Terranes;
- Concept of Isostasy, Airy and Pratt theory of Isostasy;
- Recent views on Mountain building;
- Factors controlling landform development;

- Endogenetic and Exogenetic forces

2. Oceanography:

- Ocean Bottom topography of Pacific, Atlantic and Indian Ocean;
- Temperature distribution of the Oceans;
- Salinity distribution of the Oceans;
- Heat budget and Salt budget of the Oceans;
- Oceanic Deposits;
- Oceanic water movements- Waves, Currents and Tides;
- Marine Resources- Biotic, mineral and energy resources.

TEST NO. 4

10 JANUARY, 2021

**CLIMATOLOGY
+ BIOGEOGRAPHY +
ENVIRONMENTAL
GEOGRAPHY****1. Climatology**

- Introduction to atmosphere, Basic heating and cooling process;
- Global temperature patterns;

- Heat budget of the Earth;
- General circulation pattern of the atmosphere;
- Atmospheric stability and instability;

- Planetary and local winds;
- Monsoon;
- Jet streams and Rossby waves;
- Hydrological cycle;
- Adiabatic process;
- Clouds;
- Types of Precipitation;
- Process of Rainfall;
- Distribution of Rainfall.

2. Biogeography:

- Soil Forming Factors;
- Soil component;

- Soil profile;
- Pedogenic regimes;
- Soil classification;
- Distribution of Major soils

3. Environmental Geography

- Ecosystem and Biomes;
- Terrestrial Flora and Fauna;
- Major Biomes;
- Ecology and Environment;
- Global and regional ecological changes and imbalances.

TEST NO. 5

24 JANUARY, 2021

PHYSICAL SETTINGS + RESOURCES

1. Physical Settings:

- India as a Geographic unit;
- India's frontiers;
- Geological structure;
- Physiography;
- Drainage system of India;
- Evolution of the Himalayan and Peninsular Rivers;

- Soils; Natural vegetation.

2. Resources:

- Water Resources;
- Biotic and marine resources;
- Forests;
- Wildlife;
- Distribution of National park, wildlife sanctuaries and Biosphere reserves

TEST NO: 6

07 FEBRUARY, 2021

**AGRICULTURE
+ INDUSTRY****1. Agriculture:**

- Salient features of Indian Agriculture;
- Problems of Indian agriculture and their solution;
- Agricultural productivity;
- Irrigation;
- Types of Irrigation;
- Agroforestry; Social Forestry;
- Major crops and its distribution.

2. Industry:

- Evolution of Indian Industries;
- Factors influencing the location of Industries;
- Spatial distribution of important industries in India;
- Industrial Regions; Industrial houses in India.

TEST NO: 7

14 FEBRUARY, 2021

**CULTURAL SETTINGS
+ SETTLEMENTS +
POLITICAL ASPECTS****1. Cultural Settings:**

- Evolution of Indian society;
- Ethnic composition;
- Religious minorities;
- Indian population;
- Distribution of population;
- Spatial distribution of age structure,
- Sex-ratio,
- Work force,
- Dependency ratio and longevity

2. Settlements:

- Classification of Settlements;

- Patterns and morphology of rural settlements;
- Urban settlements in India;
- Morphology of Indian cities;
- Functional classification of India cities

3. Political Aspects

- Geographical basis of Indian federalism;
- State reorganisation;
- Emergence of new state post independence;
- Regional consciousness and inter state issues.

TEST NO: 8

21 FEBRUARY, 2021

**TRANSPORT,
COMMUNICATION
AND TRADE + RDP +
CONTEMPORARY ISSUES****1. Transport**

- Railways,
- RRTS,
- Bullet train,
- DFC; Roadways;
- Water transport;
- Ports, Sagarmala project
- Communication and IT
- Indian Space Programme.

2. RDP- Development;

- Regional planning in India;
- Five years plan;

- panchayati raj and its role in rural development;
- Command area development;
- watershed management.
- **Contemporary issues-**
 - ▶ Ecological issues;
 - ▶ Environmental hazards;
 - ▶ Environmental pollution;
 - ▶ Environmental impact assessment;
 - ▶ Climate change.

LEVEL-2

Sub-Topic Listing

TEST NO: 9**6 MARCH, 2021****GEOMORPHOLOGY
+ CLIMATOLOGY +
OCEANOGRAPHY +
PHYSICAL SETTINGS****1. Geomorphology:**

- Concepts of Geomorphic cycles and Landscape development;
- Idea of Davis, Penck and King on Cycle of Erosion;
- Normal cycle of Erosion and Arid cycle of Erosion;
- Polycyclic landforms;
- Development of Karst Topography;
- Glacial and Periglacial cycle of Erosion;
- Coastal Landforms ;
- Denudation chronology;
- Channel Morphology;
- Erosional surfaces;
- Slope development, Idea of Davis, Penck and King on slope evolution, Slope replacement and Parnell retreat;
- Applied Geomorphology- Geohydrology, Economic Geology and Environment.

2. Climatology-

- Atmospheric Disturbances;
- Air Masses;
- Fronts;
- Midlatitude cyclone;
- Tropical cyclone;

- Climatic classification of Koeppen's, Trewartha's and Thornthwaite's;
- Global climatic change and role and response of humans in climatic changes;
- Applied climatology and Urban climate.

3. Oceanography:

- Coral reefs;
- Daly, Darwin and Davis theory of Coral reef formation;
- Wilkinson's report on loss of coral life;
- Sea level changes and its effects;
- United Nations convention on law of the Sea;
- Oceanic pollution and its effects over global environment.

4. Physical Settings:

- Factors affecting the climate of India;
- Mechanism of the Monsoon;
- Seasonal Rhythm;
- Atmospheric disturbances;
- Koppen's, Thornthwaite's, Trewartha's and R.L.Singh's climatic classification of India.

TEST NO: 10**13 MARCH, 2021****PERSPECTIVES IN HUMAN
GEOGRAPHY +
POPULATION AND
SETTLEMENT +
SETTLEMENT + REGIONAL
PLANNING + RDP****1. Thought:**

- Concept of Landscape;
- Language, Secularisation;
- HDI Population and Settlement-Problems associated with population;
- Population as social capital;
- Social well-being and quality of life;
- Nelson's model of functional classification of towns;
- Morphology of smart cities versus historical towns;
- Problems and remedies of Urbanisation.

2. Settlements:

- Urbanisation in India;
- Conurbations and metropolitan regions;
- Town planning in India;

- Urbanisation problems in India;
- Slums and associated problems.

◦ Regional Planning:

- Regional imbalances;
- Different regional development strategies;
- Environmental issues in regional planning.

3. RDP

- Significance of Centralised Planning in 21st Century;
- Evolution of NITI Aayog;
- Development strategies of NITI Aayog;
- Multilevel planning;
- Planning for backward and resource deficit areas.

TEST NO: 11**20 MARCH, 2021****ECONOMIC GEOGRAPHY
+ RESOURCES +
AGRICULTURE +
INDUSTRY + TRANSPORT,
COMMUNICATION AND
TRADE + MODELS AND
THEORIES)****1. Economic Geography**

- Whittlesey's agricultural typology and its relevance in present times;
- Food and nutrition related issues;
- Agricultural productivity;
- Famine-causes, effects and remedies

2. Resources:

- Mineral Resources;
- Energy Resources;
- Energy Crisis.

3. Agriculture:

- Green Revolution;
- Impact of Green Revolution;
- Ecological implications of green revolution;
- Third Green Revolution in India;

- Dry land farming;
- Agricultural Regionalisation;
- Agro-climatic Regions.

4. Industry:

- New Industrial policies;
- Liberalisation, Privatisation and Globalisation; MNC;SEZ;
- Tourism.

5. Trade:

- Trends in India's foreign trade;
- Import and Export trade of India;
- Export processing Zones.

6. Models:

- Boundaries and frontiers;
- Heartland and Rimland concepts.

TEST NO: 12**25 MARCH, 2021****BIOGEOGRAPHY +
ENVIRONMENTAL
GEOGRAPHY +
CONTEMPORARY ISSUES
+ CULTURAL SETTING +
POLITICAL ASPECTS****1. Environmental Geography:**

- Environmental Degradation and methods for conservation;
- Environmental policies and legislation;
- Environmental hazards and remedial measures;
- Biodiversity and sustainable development.

2. Biogeography:

- Wild life;
- major Gene pool centres;
- social forestry;
- Farm forestry and Agroforestry.

3. Cultural Setting:

- Problems associated with population;
- Population policies;
- Migration and its type;
- Patterns of Migration;
- Associated problems of Migration;

- Human development; Health indicators.

4. Political Aspects:

- International boundaries of India and its associated problems;
- India's role in World affairs;
- Strategic significance of Indian landmass;
- Geopolitics of South Asia and Indian Ocean Realm.

5. Contemporary Issues:

- Food security and related issues;
- Deforestation;
- Desertification;
- Land degradation;
- Agrarian crisis; Industrial unrest; Interlinking of Rivers;
- Issues of Growth and Development;
- Globalisation and Indian Economy.

LEVEL-3

FULL LENGTH TEST

TEST NO: 13**AFTER PRELIMS****FULL MOCK 1- PAPER-1****TEST NO: 14****AFTER PRELIMS****FULL MOCK 1- PAPER-2****TEST NO: 15****AFTER PRELIMS****FULL MOCK 2- PAPER-1****TEST NO: 16****AFTER PRELIMS****FULL MOCK 2- PAPER-2**

**TOPIC WISE
PREVIOUS YEAR'S
QUESTIONS OF
GEOGRAPHY
OPTIONAL**

PAPER - 1

GEOMORPHOLOGY

1. Discuss the methods of measuring the intensity and magnitude of earthquakes. How are seismic zones demarcated ?
2. Compare and contrast different types of plate boundaries.
3. Describe phreatic eruptions and their consequences.
4. "Geomorphological changes are largely responsible for environmental hazards in the Himalayan region." Comment with relevant examples.
5. Evaluate how far Kober's geosynclinals theory explains the mountain building process.
6. "Landscape is a function of structure process and stage." Critique the statement.
7. "Climate, slope gradient and rock structure influence the avulsion of channels." Explain.
8. Discuss the concept of Periglacial cycle as propounded by Peltier.
9. "The knowledge of slope analysis has limited field application in the slope management." Explain.
10. Write a note on pseudovolcanic features.
11. "Geological structure has a dominant control on landforms and is reflected on them." Discuss.
12. "In explaining the concept of pediplanation, King combined the ideas of Davis, Penck and Wood with his own." Elaborate.
13. Describe the "basket of eggs topography"
14. "Present – day landforms bear more complexity than simplicity" elucidate.
15. Explain with examples as to how channel dynamics has been responsible for the development of alluvial fans and cones.
16. Discuss the contribution of the American school of subaerial denudation in geomorphology.
17. Attempt classification of geomorphic process from the zonal point of view.
18. State the concept of erosion surfaces and highlight the factors responsible for their development.
19. State the concept of plate tectonics. How does it help in explaining the formation of the Himalayas and Appalachian mountains ?
20. Define the term meander and describe the basic characteristics of entrenched meander and ingrown meander.
21. Write short note : impact of Pleistocene ice age on the crust of the earth.
22. Write short note : differences between normal cycle and arid cycle of Davis.
23. Answer the following : characteristics of the standard epigene cycle of erosion.
24. Explain how Bosche and Haldenhang lead to the theory of slope replacement.
25. Write short notes on Major of IGBP.
26. Write short notes on : Systems approach to landform analysis.
27. Write short notes on Palaeozoic glacial evidence of Continental Drift.
28. Explain the concept of Isostasv .. postulated by Airy and Pratt.
29. 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.
30. Write short note on Geomagnetism and Paleomagnetism.
31. "Weathering is a complex phenomenon involving a number of processes and is influenced by various factors " Elaborate.
32. Bring out the relevance of seismic study in determining the structure of the interior of the earth.
33. Write short note on Essential conditions for the development of Karst topography.
34. Discuss views on slope development provided by L. C. King.
35. Give a brief account of the principal land biomes and their latitudinal distribution.
36. Essentially found in topographies under the Second Cycle of Erosion.
37. Write short note on Seafloor spreading theory.

38. Critically examine the concept of geomorphic cycle & discuss the views of W. M. Davis and W. Penck.
39. Define the concept of isostasy and discuss the postulations of Airy and Pratt.
40. Critically evaluate the continental drift hypothesis of A. Wegener.
41. Write short note: Role of seismic waves in the study of earth's interior
42. "Structure is a dominant control factor in the evolution of landforms." Discuss with suitable examples.
43. Write short note : Peneplain
44. Describe the landforms which are products of endogenetic forces.
45. Explain the sequential development of landforms associated with the coastal areas.
46. Write short note: Geosyncline
47. Provide a critique of the 'geographical cycle' model, propounded by Davis.
48. Present a critical analysis of the theory of Isostasy.
49. With reference to the theory of Plate Tectonics, explain the origin and growth of the Young Fold Mountain Systems of the world.
50. Bring out the distinctions between the 'continental drift' theory and the 'plate tectonics' theory.
51. Discuss the concept of volcanicity and show how the theory of Plate Tectonics explains the mechanism of volcanism and volcanic eruptions.
52. Write short note: Geomorphic processes
53. Discuss the concept of polycyclic landforms and present an analytical study of the polycyclic landforms of a selected region.
54. Write short note: Weathering and soil formation
55. Discuss the processes of mechanical and chemical weathering and show their relationship with soil formation.
56. Discuss the limitations of the theory of Continental Drift and show how the theory of Plate Tectonics is an improvement over it.
57. Discuss the concept of cycle of erosion and bring out clearly the difference between the views of Davis and Penck.
58. Discuss, with examples, the influence of vulcanism and diastrophism on the evolution of landscape.
59. Write short note : Treppen concept
60. Explain the factors causing rejuvenation in landscape and describe the resultant landforms
61. Write short note : Classification of Earth Movements.
62. Analyse the sequential development of landforms in either Karst or Coastal region.
63. Write short note : Polycyclic landforms.
64. Analyse the differences in the models of slope evolution proposed by Davis and Penck.
65. Write short note on Plate tectonics in about 200 words.
66. Write short note on Rejuvenated landforms in 200 words.
67. Critically analyse the concept of plate tectonics and bring out the evidences to support it.
68. Write short note on Karst landforms in about 200 words.
69. Discuss the evolution and characteristics of the land forms of glaciated regions.
70. Discuss the views of W.M. Davis and Walter Penck on the cycle of erosion.

CLIMATOLOGY

1. Discuss in detail the tri-cellular model of atmospheric circulation.
2. Explain the nature of urban climates and their impact on global environmental change.
3. Explain the techniques to calculate potential evapotranspiration suggested by Thornthwaite.
4. Explain the origin, progress and retreat of the

- Indian monsoon and discuss its impact on the Indian economy.
- Critically examine the basis and scheme of climatic classification proposed by G.T Trewartha.
 - Explain the role of evaporation in the hydrologic cycle.
 - "Climate change is a reality." Explain with suitable examples.
 - Discuss the forces which govern the air movement on the earth's surface.
 - Discuss the significance of World Climate Research Programme (WCEF) and its core projects in the understanding of climatic change.
 - Compare the origin and weather conditions associated with the tropical and temperate cyclones.
 - Differentiate between insolation and temperature and explain anomalous temperature.
 - Explain the meridional circulation of the atmosphere and its importance in world climate.
 - Discuss the basis of Koppen's climatic classification. Bring out the salient characteristic of 'Cs' type of climate
 - What is Potential Evapotranspiration? Explain how it is used in assessing the water balance in an area.
 - Discuss as to how frontogenesis contributes to weather instability.
 - Discuss the nature and origin of Indian monsoon and recent techniques of its prediction.
 - Describe the origin and development of thunderstorms with examples.
 - Discuss the salient features of 'sirocco' and 'mistral'.
 - Bring out the relationship between climate and vegetation in the Mountain Biome.
 - Discuss Dew point and various forms of condensation.
 - With suitable examples, bring out the impact of local winds on the climate of, an area.
 - Write short note : Differentiate Storm Surges and Seiches.
 - Answer the following: Impact of Cryosphere on global climate.
 - Classify airmasses and explain how 'cP' airmasses affects global climate
 - Compare and contrast tropical cyclone and temperate cyclone.
 - "Contemporary global climate change is an anthropogenic phenomenon." Discuss.
 - Give and account of global distribution of precipitation.
 - Write short note on Rossby waves and jet stream.
 - Examine the various kinds of atmospheric humidity and their associated forms.
 - What is 'polar front'? How does cyclone develop along this front? Describe the weather conditions associated with it.
 - Write short note on Inversion of temperature.
 - Write short note on tropical atmospheric instability
 - How does Climate Change affect urban areas?
 - Discuss the consequences of Climate Change on agriculture and food security, and on the Coastal Zones of the world.
 - Explain factors contributing to the Global Climate Change.
 - Discuss the mechanism and origin of Monsoon winds & explain the role of El Niño on Monsoon circulation.
 - Discuss the development of local winds, and their influence on local weather, giving three examples of the well-known local winds in the world.
 - Compare the structure and associated weather conditions of tropical cyclone with that of temperate cyclone.
 - Discuss the main features of the climatic classification system evolved by Köppen. Also point out its anomalies.

40. Write short note on Potential evapo-transpiration
41. How would the impact of global warming differ from one part of the earth to another? Give a reasoned account.
42. Discuss the mechanism and significance of tricellular meridional circulation of atmosphere.
43. Discuss the criteria which Thornthwaite adopted for his 1948 classification of world climates.
44. Discuss the concept of air-masses and present their classification.
45. Give an account of the types and distribution of precipitation on the surface of the earth.
46. Make a comparative study of the tropical and temperate cyclones.
47. Write short note: Cs type of climate, as per Koppen's classification
48. Discuss the nature and composition of earth's atmosphere.
49. Define air masses. How do they originate? Classify them and state the characteristics of any one type.
50. Examine critically the drawbacks of Koppen's Classification of climates. Explain how Thornthwaite attempted to overcome Koppen's limitations.
51. Explain and illustrate the life-cycle of a temperate cyclone and also describe the weather associated with it.
52. Write short note: Inversion of temperature
53. Explain the basis of Koppen's classification of climates. Also mention its merits and limitations.
54. Discuss the origin, movements and characteristics of air masses and explain their role in influencing world climates.
55. Explain the origin, distribution and characteristics of tropical cyclones.
56. Write short note: Hydrological cycle.
57. Explain the basic criteria used in Thornthwaite's 1948 classification of climates.
58. Explain the origin, characteristics and distribution of temperate cyclones.
59. Attempt a classification of air masses and give the characteristic features and associated weather conditions of each class.
60. Discuss critically the characteristics of tropical cyclones and analyse the extent to which they differ from the temperate cyclones.
61. Compare the basis of climatic classification of Koppen with that of Thornthwaite's classification.

OCEANOGRAPHY

1. How are ocean waves formed? Distinguish between a wave of oscillation and a wave of translation.
2. How are sandspits and tombolos formed?
3. Describe the potential marine energy resources with reference to their benefits, harvestability and environmental impacts.
4. Describe the causes and consequences of sea level changes.
5. Describe the configuration of the Pacific Ocean floor.
6. Explain the concept of micro carbon sink and its relevance.
7. Discuss the impacts of ocean currents on air mass behaviour.
8. Distinguish between low energy coasts and coral coasts.
9. Bring out the various ecological problems associated with the exploitation and use of oceans and their resources.
10. The relationship between the winds and the currents is best seen in the Indian Ocean." Justify
11. Discuss Maritime Zones.
12. Describe the characteristics of different types of pelagic deposits.
13. Give an account of recent observations on coral bleaching with reference to Clive Wilkinson's Report.

14. Give a critical account of reasons and consequences of marine pollution.
15. Illustrate the origin and nature of Sargasso Sea and Lagoon, (in about 150 word)
16. Compare the Subsidence and Glacial control theories on the formation of coral reefs.
17. "Offshore Acoustic Study helped the development of the concept of sea floor spreading". Explain.
18. What is "Base level" ? Explain the types of base level.
19. "Atolls present the most challenging explanation in the evolution of coral reefs", Discuss.
20. Write short notes on different layers of ocean water above abyssal plain.
21. "Temperature, salinity and density differences in ocean water are the prime causes of ocean water circulation." Elaborate.
22. Write short note on Salinity patterns in Indian Ocean.
23. Explain the scientifically sound methods of bathymetry and give an account of the bottom topography of the Atlantic Ocean.
24. Write short note on Ocean deposits.
25. Comment on marine heat budget and the oceanic circulation system.
26. Examine economic significance of the resources of the Continental shelf of the Indian Ocean.
27. Describe the ideal conditions for coral reef formation & discuss the glacial control theory of coral reef formation.
28. Write short note: Eustatic changes of Sea-level
29. Discuss the different bases for classifying the ocean deposits and give a detailed account of pelagic deposits of -the oceans.
30. Write short note: Ocean currents of Northern Atlantic Ocean
31. Write short note: Pelagic deposits.
32. Discuss the mid-Atlantic Ridge in terms of its origin, extent and relief.
33. Present a concise account of bottom relief of the Indian Ocean.
34. Write short note: Formation of coral reefs
35. Write short note: T-S diagram.
36. Write short note: Submarine canyons.
37. Explain and illustrate the submarine relief of the Atlantic Ocean.
38. Examine critically the theories of the formation of coral reefs and atolls.
39. Write short note: Marine resources, biotic, mineral and energy resources.
40. Explain and illustrate the ocean floor topography and give a detailed account of the Mid-Atlantic Ridge.
41. Write short note: Food from the sea.
42. Give a reasoned account of the distribution of salinity in the oceans and partially enclosed seas.
43. Draw a hypsographic curve to represent the major physiographic units of the ocean and comment on their permanency.
44. Discuss the theories of the formation of coral reefs proposed by Daly, Darwin and Davis.
45. Write short note on Ocean bottom relief in about 200 words.
46. Write short note on Coral reefs in about 200 words.
47. Give a reasoned account of the contents of the Atlantic Ocean and their impact on the climatic conditions of the coastal regions.
48. Give an account of marine resources and discuss their present day utilization.
49. Write short note on Pelagic deposits in about 200 words.

BIOGEOGRAPHY

1. How are soil acidity and alkalinity related to soil fertility?
2. Why is it necessary to conserve genetic diversity of species ? Do protected areas serve any useful purpose in this context?

3. Amensalism is a biotic factor that determines the geographic limits of species. Explain.
4. Discuss the causes of degradation of tropical rainforests and suggest remedial measures for their prevention, conservation and developmental
5. Distinguish between intrazonal and azonal soils. Describe in brief the characteristics and importance of azonal soils.
6. Give a classification of plants based on the amount of water requirement.
7. Distinguish between the characteristics of Chernozem and Sierozem soils.
8. Describe the characteristics of biological deserts.
9. Describe Newbigin's scheme of Floristic regions of the world and explain the Mediterranean Floristic region.
10. Bring out the ecological significance of Tropical Rainforest Biome.
11. Classify soils based on their zonal distribution and describe the characteristics of pedocals.
12. Define zoogeographic region. Also describe the basic faunal makeup of the Neo-Arctic zoogeographic region.
13. Explain weathering and mass wasting, and describe their geomorphic significance.
14. State the uniqueness of the Eurasian Steppe Biome.
15. Write short note: Types of endemic plants and their degree of vulnerability to extinction.
16. Answer the following: Adaptation and distribution of animals in the Ethiopian realm.
17. Define the term biome. List the terrestrial biomes and describe the characteristics of Savanna biome.
18. Write short note on Soil profile in Zonal and Azonal soils.
19. Write short note on Floristic kingdoms, based on their global distribution
20. Short note : Zonal and Azonal soils
21. Short note : Distribution of soils
22. Short note : Soil erosion and conservation
23. Short note: Genesis of Soils
24. Short note: Agro-forestry
25. Short note: Soil Profile
26. Short note: Soil genesis.
27. Write short note: Man and the Amazon rainforest.
28. Write short note: Biotic succession.
29. Present a classification of the soils of the world and give their economic significance.

ENVIRONMENTAL GEOGRAPHY

1. The impact of floods on life and property can be more effectively reduced by hazard mapping comment.
2. "The web of life is seamless and the consequences of disruption to one part of the ecosystem ripple throughout the whole." Elaborate.
3. How do mountaineers constitute a threat to mount Everest.
4. Explain the ecosystem approach to environmental management and highlight its advantages and disadvantages.
5. "Controlling population growth is the sustainable solution to environmental problems." Express your views with suitable arguments.
6. Discuss the objectives and principles of environmental education. Describe the basic concerns of formal and non-formal environmental education in India.
7. Explain the natural and anthropogenic causes and mitigation measures frequent flooding in Mumbai.
8. Discuss the Perception, Attitude Value and Emotion (PAVE) Theory of environmental management.
9. Discuss the major characteristics of 'CBD'. (150 words)

10. Write a critical note on the tendency of "use and throw" in the context of economic status and environment.
11. Give a reasoned account on how the impact of Global Warming differs from one part of the Earth to the other.
12. Explain the hydro-meteorological hazards in the Himalayas.
13. Explain the different stages of ecological adaptation of man and bring out the changing balance between man and environment.
14. Discuss the method of conserving I biodiversity for sustainable development.
15. Comment on the impact of environmental education on quality of life.
16. Explain the characteristics of ecological succession.
17. Enumerate the major causes of increasing degradation of environment in hills and hillslopes, and state its down-valley impact.
18. Give an account of the nature of biosphere as an ecosystem.
19. Explain the levels of Noise pollution and legislative measures to control it.
20. What are the characteristics that make CHC a serious threat to the ecosystem? Give examples.
21. Write short note: Uniqueness of fauna in the Notogean realm.
22. Answer the following: Programmes initiated by the International Council of Science on Earth system studies.
23. Discuss how different types of mining lead to different types of environmental problems.
24. Write short note on Marine Ecosystem.
25. Give an account of the structure of J ecosystem and describe its functional aspects.
26. Write short note on Desertification as an environmental hazard.
27. Write short note : Social Forestry and Environmental Conservation
28. Write short note: Sustainable development
29. Discuss the global ecological imbalances and their management
30. Bring out the major problems of environmental pollution at global scale and suggest measures to check it.
31. Write short note : Environmental Pollution
32. Write in detail on the concept of biosphere as an ecosystem.
33. Discuss the concept, components and functioning of an ecosystem.
34. Discuss the causes and consequences of environmental degradation and highlight the related conservation measures.
35. Discuss the relevance of 'watershed', as an ecosystem for the purpose of sustainable development.
36. Examine the impact of advanced agricultural technology on environment. Support your answer with examples.
37. Write short note: Desertification and its preventive measures
38. 'Man must realize the importance of maximizing agricultural production without destroying the ecological basis on which our entire food production systems rests.' Explain with examples.
39. Write short note: Natural Hazards
40. Indicate the major biotic regions of the world and discuss the ecological aspects of the monsoon region.
41. Write short note : Sustainable development
42. Short note: Biodiversity
43. Define ecosystem and describe briefly its various components. Also discuss how and to what extent the
44. modern man has affected the various types of ecosystems.
45. Write short note: concept of ecosystem.
46. Examine the causes of ecological imbalances and briefly explain the measures taken to rectify them.
47. Divide the world into major biotic regions and explain the basis of your division.

48. Discuss, in detail, man's impact on ecosystem as a result of the modern technological advancement.
49. Write short note on World's biotic regions.

PERSPECTIVES IN HUMAN GEOGRAPHY

1. Globalisation can often subsume folk culture. What are positive and negative effects?
2. HDI has brought about a paradigm shift in the way people think about the development process. Critically examine the inherent limitations of HDI.
3. "A language originates at a particular place and diffuses to other locations through the migration of its speakers." Examine this statement in the context of language hot spots and endangered language hot spots.
4. Discuss critically the manner in which quantitative revolution provided the methodological foundation for models and modelling in geography.
5. "Welfare geography emphasizes spatial inequality and territorial justice." Comment with reference to the main ideas and scope of the subfield.
6. "Areal differentiation has provided the theoretical justification for studying regions' and 'regional geography'." Comment
7. "Geography is a contested and multiparadigmatic discipline with a strong eurocentricity that has only recently been challenged." Comment.
8. Discuss the contemporary paradigms of Geography.
9. "The traditional cultural identities are at loss with the growth of global connectivity." Explain.
10. Explain the concept of Time- Geography.
11. Discuss the relevance of 'Stop and Go Determinism' in the present day context.
12. Trace the origin and progress of Quantitative Revolution in Geography and bring out its merits and demerits.
13. "Areal differentiation forms the core theme in Geography." Explain.
14. "There is a rejuvenation of environmentalism as a paradigm in geographical studies." Comment.
15. Discuss the approaches to the study of behavioural geography.
16. "Cultural regions are the most suited units to study the diversity of an area." Comment
17. "Regional synthesis is the crux of geographical studies." Elaborate.
18. "The welfare face of geography makes it an inter disciplinary subject." Elaborate.
19. "Indo-Gangetic hearth is considered to be one of the world's richest cultural realms." Examine.
20. Discuss the contribution of geographers in the development of radical geography.
21. Elaborate the concept of mental map. (in about 150 words)
22. Explain the parameters for assessment and the spatial pattern of Human Development Index in the world.
23. "Ellen Churchill Semple is an ardent supporter of Determinism." Explain.
24. Discuss the impact of positivism in paradigm shift in Geography.
25. Write short explanatory note on Welfare Approach in Human Geography
26. Critically examine the changing perspectives on the concept of areal differentiation.
27. Critically examine the method of deriving Human Development Index.
28. Write short explanatory note on Occidental culture realm.
29. Write short explanatory note on Neo-determinism.
30. Provide a broad classification of world cultural regions.
31. 'Quantitative Revolution and model building provided an empirical basis for geographical research' - Elaborate.

32. Write short note on Behavioural Geography.
33. Write short note: dualism in geography.
34. Write short note: cultural regions of the world
35. Write short note: Areal differentiation.
36. Distinguish between radical and welfare approaches in geographic studies.
37. Present a critical analysis of human and welfare approaches in Human Geography.
38. Write short note : Neo- environmentalism
39. Write short note: Radical Approach in Human Geography.
40. Describe the sequence of major paradigm shifts in geographic thought during the twentieth century.
41. What is understood by quantification in Geography? Discuss the significance of quantification in modern geographical studies with examples.
42. Critically examine the concept of dualism with special reference to physical versus human geography.
43. "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
44. Discuss the contributions of Al Beruni towards the development of geographical knowledge.
45. Examine critically the concepts of 'determinism' and 'possibilism'. Bring out the significance of regional concept.
46. Give a comparative assessment of the works of Humboldt and Ritter leading to the foundation of modern geographical thought.
47. Explain the major contribution by Arab geographers of the early medieval period in the development of geographic thought.
48. Write short note on quantitative and behavioural revolutions in geography.
49. Write short note on diffusion of innovation in agricultural technology
50. Write an essay on the contribution of European geographers to the development of geographic thought.
51. Write short note on – major cultural realms of the world.
52. Give a critical account of the cultural evolution of man. Illustrate your answer with suitable examples.
53. Write short note on environmental determinism.
54. What is meant by 'quantitative revolution in geography'? Discuss its impact on the development of the subject.

ECONOMIC GEOGRAPHY

1. "A large-scale global shift in manufacturing is the outcome of deindustrialization in the developed world matched by industrialization in the developing world." Analyze this statement.
2. Define stunting and wasting. Why are these more prevalent among children in developing countries?
3. Discuss in brief the main thesis in "Limits of Growth" (1972) and also provide a critique of the same.
4. "Famine is a social phenomena rooted in institutional and political economic arrangements, which determine access to food by different classes and strata." Comment
5. Discuss the degree of importance of transportation costs as a factor of industrial location with respect to "footloose industries".
6. "The intensity of energy crisis varies regionally." Explain.
7. "Whittlesey's agricultural regions are relevant even today." Discuss.
8. "Linkages between resource-endowed regions and resource-utilizing regions determine the pattern of international trade." Elaborate with suitable examples.
9. "Man-induced famines are becoming more common than nature-induced one." Comment.

10. "Energy mix is a step towards sustainability." Discuss.
11. "Food productivity with ecosystem is the need Elaborate.
12. "World is passing through a global resource dilemma."
13. Discuss environmental and economy problems associated with production.
14. Explain the relevance of bottom-up and top-down approaches in the development of agrarian economy.
15. Give an account of food security issues in developing countries.
16. Analyse the causes for changes in the pattern of world trade.
17. Analyse the reasons for a comparatively poorer development of fishing grounds in tropical areas.
18. Discuss the changing pattern of production and export of Coffee in the world.
19. Write short note: Countries most effected in case of shut down of Nuclear power.
20. Write short note: Role of Venezuela in the production and export of oil.
21. Answer the following: Locational significance of Rotterdam in European economy.
22. Answer the following: Impact of failure J of Monsoon on Gujarat Agro –climatic zone.
23. Write short note on Problems faced by industries which developed due to inertia.
24. Mention the agricultural regions as classified by Whittlessey and discuss their relevance.
25. Write short explanatory note on Population and Food Security.
26. Discuss the role of World Trade Organisation in determining the pattern of world trade.
27. "Famine, to a considerable extent, is a man – made hazard." Elaborate.
28. Provide a geographical account of global production and distribution of food.
29. Write short note on 'Limits to Growth' Model.
30. Write down main agricultural types and their associated features with special reference to Whittlesey. How these regions on the World map provided to you.
31. Write short note : Concept of limits to growth
32. To what extent do the regional patterns of economic development and human development in the world correspond with each other? Highlight situations of departure, in particular.
33. Write short note: The limits to growth
34. 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.
35. Explain the term resource management. Discuss its relevance in the context of global resource scarcity and the future of mankind.
36. Write short note: Types of Farming
37. 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.
38. Write short note: Globalization of trade and industry
39. Write short note: Dryland farming
40. Give an account of the agricultural typology of the world as presented by Whittlesey and critically examine the parameters used in its delineation.
41. Write short note: Measures of agricultural efficiency.
42. Write short note: Land capability versus Land use efficiency.
43. Examine the world patterns of industrial development and explain the problems of industrial development at national levels.
44. Write short note: Concept of 'Limits to Growth'.

45. Write short note: World energy crisis.
46. Give an account of the spatial pattern of world food production and analyse the related problems of malnutrition and malnutrition diseases.
47. Discuss the various sources of energy and their uses. Suggest the measures to overcome the present day energy crisis.
48. Give an account of the pattern of international trade and examine the linkages between resource endowed regions and resource utilizing regions.

POPULATION AND SETTLEMENT GEOGRAPHY

1. Assess the challenges for countries with the largest shares of aged population.
2. What changes in the current planning, management and governance of human settlements are needed to face the changing environment including climate change and disaster vulnerabilities in cities?
3. What do you mean by 'climate migrants'? Suggest appropriate policies and programmes for their resettlement.
4. Explain the relationship between net reproductive rate (NRR) and true replacement level of population.
5. Comment upon the contributions of D.M. Smith in outlining 'welfare' as a key focus in the geographies of social well-being.
6. Citing examples from Asia and Europe, comment upon the contexts within which pronatalist population policies are advanced. What could be the implications of these policies on women's workforce participation?
7. Explain the concepts of "megalopolis" and "exopolis" with regard to the growth of cities indicating whether the two can and do overlap.
8. Explain the concept of social capital in relation to India.
9. Define the quality of life and explain its parameters with adequate examples.
10. "There are considerable demographic similarities between West European nations and Japan." Explain.
11. Examine the causes and consequences of forced migration of population in the present context.
12. Describe the regional pattern of Life Expectancy in the world and bring out the challenges faced by developing countries due to increasing life expectancy.
13. Discuss the role of site in determining the types and patterns of rural settlements.
14. Critically examine the theories on population migration.
15. Discuss Nelson's method of functional classification of towns.
16. Discuss the factors responsible for counter-urbanisation.
17. "Urban Geography is nothing but city "in" area and city "as" area." Elaborate.
18. What is Geriatrics? What are the problems associated with Geriatric population?
19. Write short note: Misra's theoretical stages of Rural-Urban Process.
 1. Answer the following: Regional shifts in 'the world urbanization after 1950 and the varied characteristics of urban process.
 2. Answer the following: "Colonial forces resulted in the primate pattern of urban process in most Southeast Asian countries." Discuss.
 3. Answer the following: Impact of changing fertility ratio on world population distribution.
 4. "Though 70% of Indian population is rural, urban planning is crucial to the development of India." Discuss.
 5. Write short note on Status of infant mortality rate in the world.
 6. Write short note on Similarities in the population distribution of southern continents and reasons for the same.
 7. Write short note on Impact of migration on urban demography.

8. Write short note on Relevance of distance decay principle in Indian cities.
9. Write short explanatory note on Secondary cities in the context of urbanization in developing world.
10. "Huge populations of developing countries are not a curse. These may be and also are an asset, if situations are properly managed." Elaborate on this assertion.
11. Write short explanatory note on Optimum population.
12. Elaborate the concept of Megalopolis and discuss the characteristics and problems related to two such regions selecting one each from North America and Europe.
13. Discuss the social and economic theories of population growth.
14. Write short note on Primate cities
15. Write a note on the parameters used to describe the demographic transitions in the developing countries like India.
16. Give an account of the functional bases of central place hierarchy.
17. Write short note : Delineation of Urban Fringe
18. In urban geography, what are the concepts of primate city and Rank Size Rule? Discuss in detail.
19. Write short note: Concept of primate city.
20. Examine the concept of sphere of urban influence and discuss the qualitative and quantitative methods used in its delimitation.
21. Write short note: Concept of optimum population.
22. Discuss the causes and consequences of population migration in the world.
23. Short note: Rank - Size Rule.
24. Bring out the contrast between the internal structure of the pre-industrial and industrial cities.
25. Write short note: Primate city
26. "Water is a scarce resource in plenty." Comment and discuss its importance in the balanced habitat development. Support your answer with examples from Asia.
27. Write short note: Rural-urban fringe
28. Write short note: Growth of population and food resources of the world.
29. Examine the theories about population control and explain the relative merits of these theories in limiting population growth.
30. Write short note : Slums and squatter settlements
31. Define umland and discuss, with specific examples, the criteria for its delimitation.
32. 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.
33. Citing suitable examples from India, explain the role of site and other physical factors in determining the types and patterns of rural settlements.
34. Trace and account for the various trends of population growth in the world during the present century.
35. Enumerate the different models of the internal structure of cities. Choose one of them and discuss it in its application to a particular city.
36. Examine the causes of the international migrations of the last 50 years or so and the socio - economic and political problems generated by them.
37. Write short note: Classification of cities.
38. Give an account of the existing distributional pattern of population in the world and give your assessment regarding the importance of geographical factors for such a pattern.
39. Define the urban sphere of influences and discuss different methods of determining the spheres of influence of cities.
40. Write short note on Demographic transition.

REGIONAL PLANNING

1. "Growth is not uniform in different places." Critically examine this statement in the context of the growth pole theory.
2. What are natural regions? How are they different from planning regions?
3. Examine the role of small towns in the regional development process.
4. Give an account on sustainable development and its components.
5. In what ways can geographers contribute towards optimal land use planning in a region?
6. What is a 'region'? Describe 'Thiessen' polygon method of regional delimitation.
7. Elaborate the idea of 'Compage'.
8. "Vital statistics are necessary ingredients for development planning." Elaborate.
9. "Geographical traits lead to regional imbalances." Examine.
10. "Development planning has a component of environmental cost". Discuss.
11. Explain the qualitative and quantitative methods of delineation of the sphere of urban influence.
12. "Rural sustainability is necessary for urban sustainability." Discuss the statement in the backdrop of integrated development approach.
13. "Urban Solid Waste Management poses the greatest challenge in Metropolitan Planning". Elaborate.
14. Answer the following: Salient features of watershed planning and its advantages and disadvantages.
15. Enumerate alternative strategies of planning for backward regions.
16. Write short explanatory note on Ingredients of Sustainable Development.
17. Highlight the significance of environmental issues in Regional Planning.
18. Explain the concept of sustainable development and propose a model for agricultural development.
19. What is the concept of a region? Discuss the types of regions.
20. What is a region? Discuss the methods of regionalization.
21. Discuss various strategies for correcting regional imbalances.
22. Write short note: Regional imbalance.
23. Write an essay on 'sustainable development' from the perspective of geography.
24. Critically examine the role of growth centers and growth poles in regional development process.
25. Examine the spatial patterns of development disparity prevailing in the world.
26. What is a region? Discuss the types of regions & the methods of regionalization.
27. Write short note on Geopolitics.
28. Write short note on Concepts of nation and state.
29. Discuss the genetic classification of international boundaries. How does it differ from the morphological classification?

MODELS, THEORIES & LAWS IN HUMAN GEOGRAPHY

30. Examine the relevance of the 'rimland theory' in the contemporary world.
31. Distinguish between 'isodapanes' and 'isotins'. Critically examine the least cost theory of industrial location given by Alfred Weber.
32. Discuss the genetic classification of boundaries suggested by Hartshorne.
33. Elaborate upon the influence of Marxist philosophy on geographical research, outlining key themes addressed by Marxist geographers since the 1970's.

34. Provide a brief outline of ideas related to "sense of place" as propounded by Yi-Fu Tuan and Relph in the humanistic geography that emerged in the 1970's.
35. Outline briefly the "age of mass J consumption" as described by Rostow I in his 'multi-stage theory of growth'.
36. Write a note on "forward and backward linkages" in Perroux's thesis of economic growth and regional development.
37. "The Heartland Theory is gaining importance once again." Comment.
38. Discuss the applicability of Christaller's Central Place Theory.
39. Write an explanatory note on geographical systems.
40. Give a critical account of Losers theory of central places.
41. Define and differentiate between boundaries and frontiers. Describe the geometrical boundaries with suitable examples.
42. Discuss the application of Gravity model in Geographical studies.
43. Explain 'Isodapane'.
44. Discuss the relevance of Von Thunen's model on agricultural location in the contemporary context.
45. "Marx's view on population is more humanistic." Comment
46. Giving suitable examples, describe the importance of system analysis in geographical studies.
47. Explain the necessary conditions of takeoff and subsequent stages of development of a nation as propounded by Rostow.
48. Critically analyse application of models in Geography.
49. What are the basic postulates in the Central Place Model of Christaller?
50. Write short note: Relevance of Heartland theory in Contemporary World.
51. Evaluate the various models on population density distribution in urban centres.
52. Critically examine the salient features of Central Place Theory propounded by Christaller and Losch.
53. Discuss Systems Approach and its applicability in Geography.
54. Distinguish between boundaries and frontiers. Identify different types of boundaries.
55. Write short explanatory note on isodapane in the theory of industrial location
56. Bring out the sequential improvements in models of city structure by E. W. Burgess, Homer Hoyt, and Harris and Ullman.
57. Write short explanatory note on von Thunen's concept of economic rent.
58. Write short explanatory note on Growth poles.
59. Write a note on Weight Triangle.
60. Discuss the views of von Thunen on agricultural location.
61. Describe the laws of international boundaries & frontiers.
62. Discuss Weber's theory of industrial location, and assess its relevance in the present-day context.
63. Examine the Heart - land theory, and assess its merits and demerits.
64. To what extent are the heartland and rimland theories helpful in understanding the world political situation today? Express your opinion clearly.
65. Write short note: Growth pole.
66. Critically examine the stages of Economic Growth Model propounded by Rostov. Illustrate your answer with suitable examples.
67. Bring out the main points of difference between the central place theories of Christaller and Losch.
68. Write short note: Rimland Theory.
69. Write short note: Isolated state.
70. Discuss the concept and application of systems analysis in Human Geography.
71. Explain the basis and applicability of Christaller's Central Place Theory. Bring out the recent modifications.

72. Write short note: Gravity model.
73. Write short note: Locational Triangle.
74. Critically examine Alfred Weber's Theory of the Location of Industries.
75. 'Without the Mediterranean, Europe could not be held, without the Middle East the Mediterranean could not be held.' Discuss.
76. Explain and illustrate the models of internal structure of cities as proposed by Burgess and Hoyt. Mention also the limitations of these models.
77. Discuss Von Thunen's model of agricultural land use and examine if the model is applicable to India.
78. 'Oil has placed in the hands of Arab nations a tremendous geopolitical weapon with which they yield power.' Comment.
79. Write short note: Models in Geography.
80. Write short note: System approach in Geography.
81. Discuss the theories of Industrial location propounded by any two of the following: Weber; Hoover and Smith.
82. Write short note: Central place theory.
83. Review in detail the various theories of the location of industries.
84. Discuss in detail the Heartland concept of Mackinder and the criticism it has attracted in recent years.
85. Analyse Christaller's Central Place Theory and die modifications introduced in it and examine its relevance in the present day context
86. Examine the various theories concerning the internal structure of cities and discuss how far they are applicable to Indian cities.
87. Write short note: Theories of agricultural location.
88. Write short note on Systems approach in geography.

MISCELLANEOUS

89. Write short note : Buffer zone.

**TOPIC WISE
PREVIOUS YEAR'S
QUESTIONS OF
GEOGRAPHY
OPTIONAL**

PAPER - 2

PHYSICAL SETTING

1. Present the salient features of West flowing rivers of India.
2. Discuss the rainfall pattern and correlate it with spatial distribution of natural vegetation in India.
3. Why is the Indian Monsoon erratic in nature? Explain.
4. Distinguish the geographical aspects of North-Western lava plateau and peninsular India.
5. Explain the unusual intensity of dust storms and thunder storms across India in the pre-monsoon period of year 2018
6. Drainage pattern in Peninsular India is a result of its geological structure and topography. Elaborate.
7. Justify the inclusion of Meghalaya in Peninsular India and discuss its vegetation and soil types.
8. Give a reasoned account of unusual pattern of distribution of monsoonal rainfall in India in 2017.
9. Describe the distribution of black soils in India and their specific use for agriculture.
10. 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.
11. Mention the space relationship of India with neighbouring countries.
12. Explain the shifting of river courses and river capturing in the Himalayas.
13. How does natural vegetation affect the formation of in situ soils?
14. Explain the pattern of winter rainfall in India.
15. Describe the salient climatological characteristics of Rayalaseema region
16. Bring out the distribution of Laterite soils in India and their specific use for agriculture.
17. How is drainage pattern determined by the water divide?
18. Discuss the mechanism of Indian Monsoon.
19. Explain the topographical and structural characteristics of the Siwalik Range.
20. 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.
21. Explain the structural characteristics of the Deccan plateau.
22. 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.
23. Discuss the spatial distribution of Natural Vegetation in India with the help of a sketched map.
24. Explain Himalayan Orogeny and illustrate how the process has affected the geomorphic characteristics of Macro divisions of Himalayas.
25. Distinguish between the West and East coasts of India in terms of their evolution, present topography and drainage pattern.
26. Give reasons as to why rainfall variability is a characteristic feature of India's monsoons.
27. Discuss the formation and their distribution of the major soil types of India.
28. Distinguish between the Himalayan and the peninsular drainage systems.
29. Explain the different views put forth about the origin of Himalayas and divide Himalayas into vertical divisions.
30. Give a critical account of the recent theories of origin of Indian monsoon with special reference to Jet Stream Theory.
31. 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.
32. Highlight the salient differences between the Himalayan and the peninsular drainage systems.
33. Explain the origin, mechanism and characteristics of Summer Monsoon in India.

34. Explain the sequence of vegetation zones of the Himalayas.
35. Give a brief account of the second-order regions of India's peninsular plateau.
36. Discuss the relief features of Indian northern plains.
37. Describe the structure and relief features of peninsular India.
38. Elucidate the mechanism of the Indian monsoon.
39. Explain the rise of the Himalayan ranges.
40. Evaluate the feasibility of the proposed Ganga-Cauveri drainage link.
41. Discuss the origin and main geomorphic features of Thar Desert of India.
42. 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.
43. Discuss the distribution and characteristics of the evergreen forest in India.
44. Examine the origin and characteristics of the antecedent drainage system of the Himalayas.
45. 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.
46. Examine the origin and characteristics of the soils of the North Indian Plain.
47. Explain the factors responsible for uneven distribution of rainfall in India.
48. Discuss the recent theories put forward to explain the origin and mechanism of the Indian Monsoon.
49. Explain the drainage characteristics of Peninsular India.
50. 'India presents an example of unity in diversity.' Elucidate this statement in the context of India's physical and human aspects.
51. Explain the geographical factors responsible for the growth of mangrove vegetation in India and discuss its role in coastal ecology.
52. Discuss the major characteristics of the Indian monsoon with special emphasis on the causative factors.
53. Explain the characteristics and productivity of the 'Regur' black soils of India.
54. Elucidate the character of the Himalayan Rivers and examine their role in the Indian plains.
55. Explain some of the important theories of the origin of the South-West monsoon in India. Evaluate the impact of its characteristics with occurrence of floods and droughts in different parts of our country.
56. Give an outline of the geological history of the Peninsular India and in its terms. Explain the salient features of the relief of the areas.
57. Explain the causes of soil erosion occurring over extensive areas in certain parts of India. What measures would you suggest for solving this problem?
58. Explain the salient features of the structure, relief and drainage of the Himalayas.
59. Evaluate the Koppen's scheme of climatic regionalisation of India.
60. Give the geographical cases of unity and diversity in India.
61. Analyse the mechanism of Indian Monsoon. How are the spatial temporal variations and vicissitudes in precipitation related to this mechanism?
62. Give the salient features of the Aravallis with respect to geologic structure, relief and impact on human settlements.
63. The drainage systems of the two regions: Peninsular and extra - Peninsular India are very different in their character. What are these differences and why?

RESOURCES

1. Discuss the problems of wildlife conservation and management in India.
2. Examine the major causes of ground water depletion in India.

3. Illustrate with suitable examples the endeavours undertaken in augmenting conservation of water and vegetation in India.
4. Keeping the recent developments in view, how can the energy crisis of in be circumvented by harnessing no conventional energy resources?
5. Why has solar energy in India developed to desired level in spite high potential?
6. Discuss the freshwater crisis in India and prepare a blueprint for its sustainable management.
7. Give an account of the development of renewable resources of India.
8. Identify the important biotic resource regions of India and highlight their problems.
9. Outline the Government of India's strategies of conservation of the Western Ghats.
10. Account for the geographical distribution of groundwater resources of India. How serious is its depletion in recent decades?
11. Highlight the socio-economic and ecological roles of River Cauvery in its riverine tract.
12. Delineate the coalfields of India and mention their distinctive features.
13. Delineate the mineral belts of India and mention their distinctive features.
14. Write about Karewa Deposits and their economic significance.
15. Give an account of potentially and prospects of development of marine resources of India.
16. Identify the major biosphere reserves of India and discuss their role in the conservation of forest and wildlife.
17. Write about the Offshore oilfields and coastal ecology
18. Assess as to how surface water utilisation affects food production and food security in the country.
19. Discuss the emerging pattern of surface water utilisation in India.
20. Suggest appropriate energy policy for minimising energy crisis in India.
21. Discuss the need of conservation and utility of water resources in India.
22. "Non-conventional energy is the energy of the future in India." Justify this statement.
23. Identify the important biotic-resource regions of India. Highlight, in brief the problems and remedial measures of biotic-resource conservation in India.
24. Give an account of the success and prospects of Blue Revolution with comments on its impacts on rural economy of India.
25. Examine the National Forest Policy of India.
26. Examine the need for conservation of biotic resources in India.
27. Examine the pattern of distribution and mode of exploitation of bauxite in India.
28. Bring out the present-day position of exploitation and processing of nuclear minerals in India.
29. Examine the resources of Andaman and Nicobar Islands.
30. Critically examine the metalliferous mineral resources of India with particular reference to their present and future demands.
31. Examine the fossil fuel resources of India with particular reference to the present and future demands for energy.
32. Examine the forest resources of India and explain the principles of conservation !55ch could be applied to improve the forest wealth of India.
33. Critically examine the marine resources india and discuss the problems encountered in their development.
34. Explain the distribution of the major mineral resources of the Deccan plateau 1 ...-ether with the extent of their exploitation.
35. Assess the fossil fuel reserves of India in terms of current and future demands for energy. Examine the present and future and prospects of the their utilization.
36. Discuss the spatial variation in the developmental levels of canal irrigation in India in relation to the physical setting.
37. Attempt a spatial analysis of the development of minerals based industries in relation to mineral resource potentialities and their exploitation in different states of India.

38. Analyse the spatial patterns of the utilization of groundwater for tube-well irrigation in different parts of India.
39. Assess the fish resources of India and examine the present and future prospects of their exploitation.
40. Discuss the utilization and conservation of coal of India resources.
41. Describe the programmes for management and development of forests in India under the National Forest Policy. Mention briefly the roles of other institutions in the development of forestry in the country.
42. Discuss briefly the utilization distribution and production of manganese in India.
11. Distinguish between 'agricultural productivity' and 'agricultural efficiency', and bring out the disparity in regional distribution of agricultural efficiency.
12. Explain how modernization of Indian agriculture is affected by unfavorable institutional factors with suitable examples.
13. 'In spite of various negative impacts of Green Revolution, there is a demand for New Green Revolution.' Elaborate.
14. Why has agro and social forestry has failed to achieve its objectives?
15. Define agricultural productivity. Mention the methods of its measurement and bring out the disparities in its regional distribution.

AGRICULTURE

1. Discuss the use of chemical fertilizers, pesticides and insecticides in agriculture and its impact on human health.
2. Correlate the agro-climate zones with agro-ecological regions of India.
3. Explain the significance of dry farming in drought prone areas of India.
4. Examine the ongoing process of agricultural diversification and its implications for food security in India.
5. Explain the contemporary agriculture scenario in the context of rapid urbanization in India.
6. Land reform is a key to modern agriculture in India. Describe various measures taken in this direction after independence.
7. "India has paid heavily for achievement of Green Revolution in the form of economic, social and ecological cost." Discuss,
8. Define agricultural intensity and bring out its regional distribution in India.
9. Discuss the scope of replication of 'White Revolution' in India.
10. With the help of a map, indicate the principal areas of dryland farming in the country and account for farmers' suicides mainly in those areas.
16. Discuss the role of institutional factors in shaping the pattern of Indian agriculture.
17. Discuss the potentiality and present status of horticulture in the Western and Central Himalaya.
18. Explain the method of delineating crop-association regions with reference to India.
19. Divide India into agricultural regions and critically examine the role of ecological and human factors responsible for transformation of agricultural economy in any one region.
20. Write about Agro - forestry in India.
21. Write about Impact of land tenure on agricultural productivity in India.
22. Write about Prospects of Rainbow Revolution in India.
23. Discuss the potentiality and status of aqua - culture in the Ganga Plain.
24. Discuss the bases of identifying agro-climatic zones and explain the core-strategies for agricultural development.
25. "The institutional factors have grip over the crop pattern and crop productivity on Indian agriculture." Justify.
26. Discuss the problems and prospects of dry zone agriculture in India and highlight strategies and schemes for its development
27. Present an account of the success and constraints of White Revolution in India.

28. Critically evaluate the dual impacts of green revolution in India.
29. Examine the geographical basis of agro-climatic planning regions of India.
30. Critically examine the role of infrastructural and institutional factors in the recent transformation of Indian agriculture.
31. Write an essay on the role of animal husbandry and household industries in the development of rural economy in India.
32. Discuss the cropping patterns in different agricultural regions of India.
33. Discuss the role of institutional factors in the efficiency and productivity of agriculture in India.
34. Divide Peninsular India into agricultural regions. Explain the basis of such a regionalisation.
35. Discuss the impact of green revolution on the agricultural production in India.
36. Examine the significance of social forestry in the rural economy of India.
37. Discuss the importance of irrigation in Indian Agriculture and describe the methods of irrigation practised in either the Ganga Valley or the Karnataka- Maharashtra region.
38. Discuss the role of infrastructural, scientific and technological developments in the recent transformation of Indian agriculture.
39. Differentiate and agricultural productivity efficient methods used in the and dis agricultural efficiency.
40. Explain the role of institutional factors in the development in agriculture in India.
41. What is meant by green revolution? Explain its successes and failures.
42. Explain the distribution and characteristics of dry zone agriculture.
43. Discuss the role of social forestry in any one region of India.
44. Discuss the role of animal husbandry in the agricultural economy of India with the agricultural economy of India with special reference to any one region.
45. What is meant by ' Operation Flood'? The manner of its implementation success in India.
46. Analyse critically whether the existing cropping in different parts of India would need any change for better agriculture performance in future.
47. What is the significance of land capability classification in land use planning? Explain the method of long capability adopted by the All India land use and soil survey organisation.
48. Formulate a suitable agricultural land-use policy that will achieve the twin goals of optimum agricultural efficiency and crop productivity.
49. Analyse the relationship between cropping intensity and agricultural productivity and throw light on the measures of increasing the cropping intensity in India.
50. Outline the impact of land reform measures on agricultural development in India.
51. Give an account of the infrastructural factors necessary for promoting agricultural development in the dry zones of India with specific examples.
52. Describe the problems of production and distribution of food crops in India from the regional point of view.

INDUSTRY

1. Explain the relevance of green tourism for sustainable development of mountain environment in India.
2. Assess the importance of foot-loose industries in the development of backward regions in India.
3. Critically analyse the role of multinational corporations in India's economic development with suitable examples.
4. Startups may play important role in giving fillip to economic growth in India. Illustrate with examples.
5. Give a critical account of region specific constraints of sustainable tourism in India.

6. Assess the suitability of Special Economic Zones (SEZs) for the sustainable economic development in India.
7. Name the major industrial regions of India indicating the bases of their identification. Highlight their basic problems.
8. Mini steel plants can act as an instrument of decentralization of iron and steel industry in India. Explain.
9. How may tourism in hilly areas of India be developed as an important source of economy?
10. Analyze the location, distributional pattern and problems of cotton textile industries in India.
11. "The Bokaro Iron and Steel Plant is an example of Industrial Complex". Explain.
12. Explain the New Industrial Policies in India.
13. Why is the traditional crafts industry in India on the decline?
14. Why does the pharmaceutical industry concentrate largely in the western region of the country?
15. What are the desired possible changes in our trade policy to promote the development of cottage industry?
16. Describe the problems of agro-based industries in India in general and cotton textiles in particular.
17. Location of thermal power plants and coal fields in India are not mutually conducive. Analyse.
18. Explain how eco- tourism activities could be important livelihood options in the Himalayan and North-Eastern regions of the country.
19. Discuss the problems in realization of benefits of globalization and liberalization in industrial sector of India.
20. Distributional pattern of industries in India does not provide requisite basis for division of the country into distinct industrial regions. Elaborate
21. Explain the role of multinationals in globalization of industries in India.
22. Identify the main industrial clusters of India and account for their development.
23. Identify the spatial pattern of agro - industrial regions of India. Analyse the potentiality of Malwa as an important agro-industrial region of the future.
24. Describe the development of textile industry in India.
25. Assess the scope and development of Pharmaceutical Industry in India.
26. Examine the problems and prospects of agro - based industries in Bihar.
27. Explain the factors responsible for the distribution of Sugar industry in India.
28. Examine the role of raw materials in the location of the Iron and Steel Industry in India. Illustrate your answer with suitable examples.
29. Explain the factors promoting the rapid growth and development of the automobile industry in India, giving suitable examples.
30. Bring out the impact of multinationals and liberalisation on the Industrial Economy/ Pattern of India.
31. Trace the evolution of industries in India & evaluate the role of multinationals & liberalisation policies in this context.
32. Analyse the role of policy of liberalization on industrial landscape of India.
33. Describe the growth, characteristics and distribution pattern of India's industrial regions.
34. Discuss the growth, location and distribution of Iron and Steel Industry in India.
35. Discuss the factors for the localisation of either the cement or the cotton textile industry in India and analyse the pattern of its distribution.
36. Bring out the trends in the development of fertilizer industry in India.
37. Examine the importance of industrial estates in India.
38. Critically examine the locational pattern and trend of production of forest based industries in India.

39. Analyse the locational pattern of cement industry in India.
40. Analyse the factors for the localization of either the cotton textile or the sugar industry in India and note the recent trends in the industry.
41. Examine critically the factors for the localization of iron and steel industry in India with special reference to the newer centres of steel production.
42. Write short note: Recent changes India's basic industrial policy.
43. Draw a sketch-map to delineate the major industrial complexes of India and discuss their important characteristics.
44. Identification of industrially backward areas and problems in their development.
45. Identify the important periods of industrialization in India and analyse the character of its two most developed industrial regions.
46. Growth of agro - based industries in Uttar Pradesh and Bihar.
47. Write short note on Types of rural industries and their basis in the Rajasthan- Gujarat region.
48. Write short note on Location and growth of Fertilizer Industry in India.
49. Trace the evolution of Industrial Policy in India and bring on its impact on industrial development of the country.
50. Write short note on Agro-based Industries of India.
51. What is an industrial complex? Describe the growth, problems and prospects of any major industrial complex in India.
52. Discuss the location, present situation and future prospects of the jute industry in India.
53. Write short note on Aluminium industry in India.

TRANSPORT COMMUNICATION & TRADE

1. With special reference to India examine the changes in the nature and patterns of international trade. Mention the major influencing factors.
2. Examine the development of information technology in India and its influence on work culture and society.
3. Examine ongoing space programmes of India and their implications for national security in future.
4. Discuss the changing composition of international trade through major seaports of India.
5. Explain the pipeline network across India and its impact on regional development.
6. Account for the persisting negative trade balance of India.
7. Describe the salient features of Sagar Mala Project and highlight its role in port-led development of coastal regions in India.
8. Integrated development of road and rail networks in a complementary framework is a prerequisite for regional development. Explain with reference to North-Eastern Region of India.
9. Bring out the significance of Indian Regional Navigation Satellite System.
10. Critically examine the feasibility of development of a comprehensive network of airways in India.
11. Evaluate the impact of technology on resource utilization in India.
12. Explain with suitable examples the role of road transport in agricultural development in India.
13. Analyze the pattern of India's trade with the S-E Asian countries.
14. Bring out the development of river water transport in India and its role of regional development.

15. How has India's "Look East" policy taken shape in the past two decades and how it may affect India's external trade?
16. Evaluate the contribution of Communication and Information Technology to the development of economy and society, and examine the relevance of the recently launched "Digital India" programme.
17. Discuss the problems and prospects of National Waterway No. 1.
18. Examine the role of road transport in regional development taking suitable examples from an area you have studied in detail.
19. Assess the growing importance of air transport in India and examine its role in the regional development of the country.
20. What is the role of the Triplet Transport System in the regional development of India?
21. What is the Golden Quadrilateral? Discuss the progress made in its execution and impacts on Indian economy.
22. Give a comparative account of the development of River Water Transport in pre-colonial and post-independence periods in India. Highlight the role of River Transport in regional development.
23. Discuss the growing importance of ports in foreign trade of India.
24. Discuss the oil and natural gas pipeline networks in India. Highlight their complementary role in regional development.
25. Analyse the recent trends in Indian International Trade.
26. Critically examine the complementary and competitive character of the Indian rail-routes and the road network.
27. Role of rural market centres in fostering intra and inter-regional trade in India.
28. Explain the role of railways as a unifying factor in Indian economy.
29. Discuss the nature of commodity flows in India.
30. Geographical impediments in the development of inland waterways in India.
31. Role of rural market centres in promoting intra and inter - regional trade.
32. Write short note: Competitive and complementary character of the Indian rail-route and road network.
33. Role and characteristics of rural market centres in different parts of India.
34. Discuss briefly the overall pattern of inter-regional trade in India.
35. Discuss the basis on which the current network of Airways is built in India, highlighting its role in the overall transportation milieu.
36. Analyse the role of different types of transport in the commodity flows of the Delta regions of East India.
37. Write short note in about 200 words : Significance of inland waterways in the development of transportation and trade
38. Discuss the significance, traffic flow pattern, emerging trends and problems of road transport in India.
39. Development of Railway transport in India during different plan periods.

CULTURAL SETTING

40. Analyse the role of interstate migration in regional disparity in India.
41. Explain the present status of age-structure and availability of workforce in India.
42. Discuss the socio-economic problems associated with the left behind families of international migrants from India.
43. Critically assess the vanishing ethnic plurality of India.
44. Religious minorities are largely concentrated in border states of India. Discuss its causes and consequences.
45. "Linguistic diversity is an asset as well as a challenge in India." Explain the statement focusing on the distribution of languages and the major steps taken to address the related issues.
46. Discuss the factors influencing the distribution

- of sex ratio in India.
47. Point out the ethnic disparities in the N-E India.
 48. In population planning the thrust of the Government has been 'planning the population' not 'plan for the population'. Elaborate.
 49. Discuss the social and spatial ramifications of increasing longevity.
 50. "Age-sex pyramid is representative of the history of a region/ Explain.
 51. Discuss the trends in emigration focusing on its major thrust.
 52. Highlight the implications of declining child sex ratio in India.
 53. Describe the impact of linguistic diversity on the development of various regions of India.
 54. Demographic dividend and its implications on Indian socio-economic environment.
 55. What do you understand by 'Young India'? How can the present state of population composition be converted into an asset for the country?
 56. How age structure affects dependency ratio? Explain with suitable examples.
 57. Evaluate the population policy of India and examine its relevance to the nation's population control.
 58. Write about Geographical reasons for the variation in literacy from state to state in India.
 59. Write about linguistic diversity in North - eastern states.
 60. Discuss the spatial pattern of intra - regional migration in India and examine its implications in regional development.
 61. Explain how Demographic Transition created Demographic Divide in Contemporary India.
 62. Write about the Ethnic diversity of North - eastern States
 63. Describe & explain the spatial patterns of literacy in India.
 64. Explain the causes and consequence of migration.
 65. Present an account of tribal, tribal areas and their problems in India.
 66. Discuss the causes and consequences of sex-ratio variations in India.
 67. Identify the tribal areas of India and highlight their important problems.
 68. "Economic characteristics of an area exert a much more direct effect upon its population patterns than do the physical characteristics." Explain with examples.
 69. Evaluate the population policy of India and examine its relevance to the nation's population control.
 70. In what way the language, religion and tradition can form the basis of cultural regionalisation of India? Elaborate.
 71. Account for the present distributional pattern of population density in India.
 72. Elucidate the sex and age structure of the population of India.
 73. Analyse the distribution of population in India in the perspective of natural resources and identify the over-populated and under-populated regions in the country.
 74. Discuss the genesis of ethnic and racial diversities in India.
 75. Critically examine the problems and prospects of tribal areas in India.
 76. Critically examine the factors affecting the distributional pattern of population in India.
 77. Examine the genesis of racial diversity in India.
 78. 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.
 79. Elucidate the genesis of ethnic and cultural diversities in India.
 80. Elucidate the measures taken to limit the growth of population in India.
 81. Discuss the problems of tribal areas in India.
 82. Elucidate the population density types in India.

83. Analyse the changes in the literacy rate during the post-independence period in India.
84. Elucidate the current population policy of India and comment on its effectiveness.
85. Examine critically the major factors responsible for the growth of two highest population density zones in India.
86. Identify the major tribal communities in India by regions and examine the problems common to all of them and the ways of their solution.
87. Analyse the causes of the low literacy rate of India. Suggest feasible measures for raising the literacy level.
88. Analyse the recent trends in the growth and density of population of India and evaluate the socio - economic and environmental problems generated by them.
89. Discuss the problems of the tribal areas and suggest measures for solving them.
9. Present a comparative analysis of geographical factors responsible for distribution of human settlements in Rajasthan desert and North-Eastern regions of India.
10. How do slums develop? Give concrete suggestions for their improvement.
11. Reduction in regional disparities has been one of the priority goals of national planning in India. How the proposed new Smart urban centres may contribute to the process?
12. "Mono-functional towns are economically vulnerable," Discuss.
13. Account for the multiple problems of urban agglomerations.
14. Analyse the feasibility of 'Smart Towns' Development in India.
15. Define slums and explain their problems.
16. Write a note on the emergence of National Settlement System in colonial India and discuss the factors contributing to urbanization in post-independence period.

SETTLEMENT

1. Provide a reasoned account on emerging conurbations in India and explain with suitable examples the problems associated with it.
2. Correlate the price of land, vertical growth of cities and the growth of slums in large cities of India.
3. Describe the changing regional morphology of rural settlements in India.
4. Peri-urbanization has created enormous environmental problems. Discuss their causes and consequences with reference to the National Capital Region (N.C.R.) of India.
5. Examine the driving forces of changing urban morphology of million-plus cities of India with suitable examples.
6. Mention various methods of functional classification of towns in India and explain the method applied by Asok Mitra.
7. Small towns in India have problems and prospects of their own. Elaborate.
8. Describe the causes and effects of urbanization in India and explain its impact on rural landscape and urban ecology.
17. Give an account of geographical conditions responsible for the development of different types of rural settlements in India.
18. Write about morphological characteristics of villages situated in hilly regions.
19. Differentiate between conurbations and metropolitan regions. Give a reasoned account of emerging conurbations in India.
20. Outline the role of Class I and Class II towns in the urban process of India and indicate their contribution towards balanced urban development.
21. How do the 'push' and 'pull' factors operate for the emergence of slums in the metropolises of India?
22. "There is no sharp divide where an urban settlement stops and rural area begins. Analyse the statement with reference to the sprawl of Indian cities.
23. State the geographical factors which influence rural house types in India.
24. 'Unplanned urban development has created numerous problems.' Comment

25. "Slums are urban menace." Elucidate with Indian cities as examples.
26. Explain the morphology of Indian cities in the background of existing morphological models.
27. Discuss the elements and approaches of town planning in India.
28. Discuss briefly the principal types of rural settlements in India.
29. How do slums develop? Give concrete suggestions for their improvement.
30. Discuss the census definition of urban areas in India.
31. Provide the geographical background and characteristics of the distribution of Hill Stations of India.
32. Describe the salient characteristics of the morphology of Indian cities.
33. Discuss the environmental impact of the growth of slums in Indian cities.
34. Explain, with suitable examples and sketch-maps, the distribution of various patterns of rural settlements in India.
35. Hierarchical pattern of Indian towns.
36. Discuss the concept of city region and referring to Indian cities, examine critically functional indicators used for delimiting the city region.
37. Discuss the geographical control of rural settlement pattern in India.
38. Examine the census concept of urban areas in India.
39. Factors for the growth of slums in the metropolitan cities of India.
40. Explain, with the help of suitable examples and illustrations, the distribution of various patterns of rural settlements in India.
41. Write short note: Land-use characteristics of the rural-urban fringe in India.
42. Bring out the salient characteristics of Indian urbanization with suitable examples.
43. Write short note: Internal structure of an Indian city.
44. Distinguishing features of an urban slum and its position in metropolitan area.
45. Describe briefly the internal structure of Indian cities, together with the ensuing problems. Illustrate your answer with specific examples.
46. Major characteristics of the rural - urban fringe around metropolitan cities.
47. Explain the hierarchical pattern of Indian cities and discuss their growth and distribution.
48. Analyse the extent of urban population growth in India in the last four decades.
49. Write short note: Growth of urban slums and problems associated with them.
50. Write short note: Function, Classification and hierarchy of urban settlements.
51. Discuss the recent trends in urbanisation in India and briefly describe the main characteristics and problems of the major Indian cities.
52. Discuss the process, pattern and impact of urbanisation in India.
53. Write short note on Functional and Morphological Typology of Indian Cities.
54. Write short note on Functional and hierarchical patterns of Indian cities.

REGIONAL DEVELOPMENT & PLANNING

1. Analyse the incentive oriented programmes for removing regional imbalances in socio-economic development of India.
2. Discuss how watershed management has become a tool in eradication of rural poverty in India.
3. Discuss the strategies of integrated development of island territories in India.
4. Examine the role of people's participation in successful decentralised planning in India.
5. Explain the role of 'Hill Transport Subsidy Scheme' in reducing regional imbalances in areas identified by the Government of India.
6. "An effective three-tier Panchayat Raj System

- will strengthen the bottom-up approach to multi-level planning in India.” Explain.
7. Describe the major tribal regions of India and their problems.
 8. Discuss the concept of multi-level planning as practised in India, and explain the implications of 73rd and 74th Constitutional Amendments in this respect.
 9. Indian island territories are vulnerable to the sea level rise. Explain.
 10. Is planning for a cluster of villages a viable option, when planning for backward areas of the country? Discuss with suitable examples.
 11. Decentralized planning through the strengthening of the Panchayat system is the focus of planning in India in recent times. Suggest a blueprint for an integrated regional development plan.
 12. Discuss the relationship of watershed approach to village level planning
 13. Discuss the concept of Command Area Development and evaluate its success with reference to Indira Gandhi Canal.
 14. How can a meaningful skill development programme contribute to the economic growth of hill areas?
 15. Evaluate the Backward Regions Grant Fund Programme.
 16. Comment on the criteria of identifying Drought Prone Areas in India.
 17. Discuss the objective of ‘Vision 2020’ in creation of viable village complex in India for ‘Inclusive Rural Development’ programme.
 18. Identification of the spatial diversity in development in India.
 19. Planning and development of ‘Tribal Regions’ in India.
 20. City-regions as territorial unit for regional planning and development.
 21. Elucidate the role of Tribal Development Blocks in the development of Tribal areas.
 22. What is Regionalism? Discuss how regionalism affects the developmental process with suitable examples.
 23. Discuss the problems and prospects of development of catchment and command areas.
 24. Critically examine the Panchayati Raj setup.
 25. Discuss the policies and programmes Integrated Rural Development Programmes in India.
 26. Explain the processes and patterns of regional disparities in India and suggest suitable measures for bringing about the regional balances.
 27. Discuss the experience of regional planning in India in the context of the National Capital Region.
 28. Examine the relationship between geography and regional planning.
 29. Discuss Panchayati Raj as a measure of decentralised planning in India.
 30. Examine the regional development policy of India in various Five Year Plans.
 31. Present an account of the experience of regional planning in India in the context of damodar Valley.
 32. Discuss the programmes and policy of development of dry areas in India.
 33. Explain the concept of Command Area Development in respect of Multi-Purpose Projects of India.
 34. Give a reasoned account of regional disparities in economic development in India and bring out the contribution of decentralised planning in solving this problem.
 35. Elucidate the role of Tribal Development Blocks in development of Tribal areas.
 36. Explain die concept of watershed and its utility in land management.
 37. Explain the concept of multi-level planning in India.
 38. Analyse the causes of regional disparities in the economic development of India and suggest measures for their removal.
 39. Write short note: Nature and utility of multi-level planning in India.

40. Draw a sketch map of India showing major river basins. Examine the feasibility of the concept of river basins as a planning unit.
41. Evaluate the benefits of Block Level development planning in India.
42. Explain the salient features of the tribal development programme with particular reference to either Dandakaranya or Chotanagpur.
43. Write short note: Magnitude of regional imbalances in economic development in India.
44. Give the hierarchy of planning regions and bring about the role of metropolitan planning in fostering regional development in India.
45. Discuss the growth of regional planning in India and account for regional disparities in development.
46. Write short note: Major causes for regional disparities in the development of India.
47. Examine critically the advantages and disadvantages of multi-level planning with special reference to India.
48. Write short note: Salient features of Tribal area planning.
49. Discuss the changes brought about in Indian agriculture by the successive Five- Year Plans, mentioning their successes and failures.
50. Critically examine the relationship between deforestation and environmental degradation with specific examples from any one region in India.
51. What is meant by integrated rural development planning. What are its components? What has been the extent of its success in relation to its objectives.
52. Analyse the prevailing patterns of regional disparities in the socio-economic development of India and evaluate the role of the five-year plans in reducing them.
53. Write short note: Regional consciousness and national integration.
54. Write short note: Role of rural markets in regional development.
55. Differentiate between River Basin and Command Area. Discuss the advantages and disadvantages of River Basins as planning regions in India. Give concrete examples.
56. Write short note: Significance of District Planning in India.
57. Analyse the causes and consequences of regional disparity in the economic development of India and outline measures to reduce disparity.
58. Outline the agricultural regions of India indicating the bases of regionalization. Bring out the factors responsible for the emergence of different crop combination in different regions.
59. Discuss the population problem of India in regional perspective and make specific suggestions for tackling the problem with respect to the broad population regions.
60. Indicate the criteria of identification, demarcate the industrially backward areas of India and enumerate the main hurdles in their development.
61. Examine the geographical bases for growth of regional consciousness and regionalism during last three decades in India.
62. Write short note: Regional Planning in India.

POLITICAL ASPECTS

1. "India is emerging as global power in relation to Indian ocean realm." Elaborate.
2. Discuss the political aspects of Himalaya. Explain how it has affected the geo-strategy, geo-politics and regional consciousness of Indian federalism.
3. Is the land boundary of India with its neighbouring countries a cultural divide or divided culture? Explain with suitable examples.
4. Cross border terrorism has implications on border area development in India. Examine it with suitable examples.
5. Discuss the emerging geo-political scenario of Indian Ocean realm.

6. Why setting up of Water Management Boards is a controversial issue in India.
7. Goods and Services Tax (GST) has differential impact on developed and backward states of the country. How and why?
8. Bring out the geopolitical implications of Doklam dispute in the context of Indo-China relations.
9. Identify the Naxal-affected areas in India and discuss their socio-economic problems.
10. Explain the inter-State issues involved in implementation of the Satluj-Yamuna Link Canal Project.
11. Explain the origin, dimension and implications of Sino-Indian border dispute.
12. Explain the role of India in the geo-politics of south Asia.
13. Give a reasoned account of river water disputes related to the River Krishna.
14. India is involved in a number of border disputes. Explain the reasons and remedies.
15. Discuss the implications of India's strategic location with reference to the Indian Ocean.
16. Bring out the role of terrain in determining India's political influence over neighbouring countries.
17. Comment on the basis of creation of new States in India in 2000.
18. Write a note on geopolitics of the Indian Ocean realm.
19. Examine the origin, dimensions and implications of the Sino - Indian border dispute.
20. Write about the Role of physiography in cross border terrorism
21. Critically examine the bases of state reorganisation in India since independence.
22. Assess the geopolitical significance of Indian Ocean.
23. Examine the geographical basis of Indian federalism.
24. Write an essay on the origin, dimensions and implications of Sino-Indian border dispute.
25. Make an appraisal of the role of India in the geopolitics of the Indian Ocean.
26. Discuss the geopolitical importance of India's Land Boundaries.
27. Analyse the role of India in the geo-politics of the Indian Ocean Region.
28. Write short note: Regional consciousness versus national integration in India.
29. Discuss the role of languages in regional consciousness and national integration in India.
30. Discuss the geopolitical importance of Indian Ocean area.
31. Explain the basis and consequences of establishment and implementation of recommendations of the State Re-organisation Commission in India since 1950s.
32. Write short note: Geographical basis of the Indian Federation.
33. Write short note: Importance of India in the geopolitics of the Indian Ocean realm.
34. Write short note: Problems of militancy in India's border states
35. Examine critically the geographical basis of the Indian federation.
36. Write short note: Major issues involved in the Sino - Indian boundary conflict.
37. Discuss the political issues involved in the 'Tin Bigha' or Siachen dispute.
38. Write short note: The international boundary of India and related issues.
39. Critically examine the political consequences of the regionalisation of our country on the basis of language.
40. Write short note: The Sino-Indian Boundary.
41. Write short note: Geopolitical significance of the Indian Ocean.

CONTEMPORARY ISSUES

1. Describe the altitudinal and spatial geo-environmental hazards in the Himalayas.

2. Give a reasoned account of high level of pollution in north Indian cities as compared to south Indian cities.
3. "Intrabasins linkages of rivers are more feasible economically, socially and ecologically". Discuss with suitable examples from India.
4. Examine the problems of glacial lake outburst flood (GLOF) in India.
5. Describe the socio-spatial consequences of the recent Nipah viral encephalitis In India.
6. Make a critical appraisal of the factors affecting river water quality in India.
7. Explain the changing river courses and their impacts on the riparian population in India with suitable examples.
8. What do you understand by soil pollution? Delineate the areas vulnerable to it in india and suggest remedial measures.
9. Inter-linking of rivers may serve as a major source of assured irrigation and all-weather inland navigation in India. Comment on its commnets on its feasibility taking into account physical, economic and ecological implications.
10. Farmers' suicide is one of the major agrarian problems in India. Bring out its causes and suggest the remedial measures with special reference to Maharashtra, Andhra Pradesh and Punjab.
11. Examine the causes of regional disparities in economic development in India.
12. Explain the impact of economic development on environment degradation in India.
13. Describe the flood-prone areas and their management problems in the Ganga plains.
14. Explain how change in land use can promote eco-development at different levels in the country.
15. How does climate change affect the process of desertification of India?
16. Account of the growing frequency and intensity of floods in India, and suggest short and long-term remedial measures indicating the chronically flood-prone areas.
17. How has an inappropriate urban land use policy accounted for undesirable development in and around metropolitan cities?
18. Differentiate between 'intensity' and 'magnitude' of an earthquake and explain its varying impact in different parts of India.
19. Explain the concept of 'Make in India' and indicate the essential inputs for its success.
20. Suggest the measures of wild-life conservation with reference to extinction of rare species.
21. Describe how urbanization creates air and water pollution in India.
22. Identify the earthquake-prone zones and suggest strategy for their management.
23. Snags in the Food Security Policy of India.
24. Comment on the feasibility of interlinking of rivers of India and its possible contribution to resolution of water crisis.
25. Examine the relevance of linkage of rivers in India with special reference to Ganga - Cauveri linkage canal.
26. Explain the causes, impact and remedial measures of flood - hazards in the middle Ganga plain. Represent the flood - affected areas of middle Ganga plain on a sketch map in your answer - book.
27. Write about identify Tsunami affected areas and give their management problems in India.
28. Write about factors affecting innovation diffusion.
29. 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.
30. Identify the ravine - affected areas in India and discuss the environmental and economic impacts of their reclamation.
31. Discuss the problems of environmental degradation generated by urban wastes in India.
32. How does the formation of a National Park help ecological restoration and conservation? Explain with suitable examples.

33. Identify the regions affected by Chikungunya with the help of a sketched map and bring out the regional pattern of the disease.
34. Define an 'Epidemic' and discuss the occurrence of Chikungunya in India.
35. Write about the Spatial pattern of soil erosion in India
36. Discuss the impact of globalization on India's industry and agriculture sectors.
37. What are the causes & consequences of environmental degradation in India's industrial areas? Give specific examples.
38. Giving reasons, identify the chronic drought-prone areas of India.
39. Explain the concept of sustainable development and examine its relevance.
40. Discuss environmental problems of India in the context of rapid economic development and population growth.
41. Write a critical note on the Cauvery River Dispute.
42. Write an essay on the population explosion and food security in India.
43. Give an account of the distribution of flood-prone areas of India and the programmes and policy of controlling the impact of floods in the country.
44. Elucidate the concept of sustainable growth and development.
45. Explain the causes, impacts and remedial measures of flood-hazards in Middle and Lower Ganga plain.
46. Evaluate the concept of sustainable growth and development.
47. Explain the causes of regional disparities in economic development of India.
48. Identify the drought - prone areas of India and discuss the measures of their development.
49. Explain the causes, impacts and remedial measures of earthquake disaster.
50. Discuss the salient features of Cauvery Water Award.
51. Explain the geographical characteristics of the regional distribution of earthquakes in India
52. Give a reasoned account of either flood hazards or drought hazards occurring in India, and also suggest measures for controlling them.
53. Evaluate the nature of ecological problems in India and suggest measures for their management.
54. Explain the criteria used in the identification of drought-prone areas in India.
55. Explain the salient features of Sardar Sarover Project and elucidate the controversy related to its implementation.
56. Examine the nature and extent of environmental degradation in the Himalayas.
57. 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.
58. Explain the origin and consequences of earthquakes in the Himalayas with special reference to the Uttarkashi earthquake 1991.
59. Analyse the ecological significance of forests in different regions of India indicating the impact of rapid deforestation.
60. Discuss the environmental problems regarding industrial pollution in India.
