

CORE-1: GEOMORPHOLOGY

SHORT QUESTIONS:

- Catastrophism?
- Denudation chronology?
- Ecology?
- Ecoclimate?
- Ecosystem?
- Environmental geography?
- Form geomorphology?
- Geoclimate?
- Highway climatology?
- Human biometeorology?
- Microclimatology?
- Palimpsest topography?
- Private climate?
- Process geomorphology?
- Regional climatology?
- Uniformitarianism?
- Vegetation geography?
- Weather?
- Archipelago of stellar islands?
- Big bang theory?
- Cold origin concept?
- Filament?
- Galactic revolution?
- Galactic year?
- Galaxy?
- Giant planets?
- Hot origin concept?
- Kuiper belt?
- Law of conservation of angular momentum?
- Nebula?
- Planetesimals?
- Solar system?
- Supernova?
- Terrestrial planets?
- Cambrian period?
- Carboniferous period?
- Cretaceous period?

- Devonian period?
- Eocene epoch?
- Epoch?
- Era?
- Geological clock?
- Holocene epoch?
- Jurassic period?
- Miocene epoch?
- Oligocene epoch?
- Ordovician period?
- Period?
- Permian period?
- Pleistocene epoch?
- Pliocene epoch?
- Radiocarbon epoch?
- Silurian epoch?
- Triassic period?
- Barysphere?
- Core?
- Crust?
- Density?
- Lithosphere?
- Mantle?
- Moho-discontinuity?
- Primary waves?
- Pyrosphere?
- Secondary waves?
- Seismic waves?
- Seismology?
- Seismograph?
- Surface waves?
- Vulcanicity?
- Weichert-Guttenberg discontinuity?
- Zone of low velocity?
- Conservative plate boundary?
- Constructive plate boundary?
- Destructive plate boundary?
- Dodecahedron?
- Flight from the poles?
- Land hemisphere?

- Opening of Tethys?
- Pangea?
- Panthalasa?
- Plate?
- Plate tectonics?
- Tetrahedron?
- Water hemisphere?
- Isostasy?
- Law of compensation?
- Law of floatation?
- Level of compensation?
- Zone of compensation?
- Anticlines?
- Anticlinorium?
- Axis of fold?
- Closed folds?
- Crustal bending?
- Diastrophic force?
- Dip?
- Endogenetic forces?
- Epeirogenetic movement?
- Exogenetic forces?
- Extreme events?
- Fan folds?
- Fault?
- Fault dip?
- Fault plane?
- Fault scarp?
- Folds?
- Nappes?
- Open folds?
- Orogenetic movement?
- Plunge folds?
- Recumbent folds?
- Reverse faults?
- Rift valley?
- Strike?
- Strike-slip fault?
- Synclines?
- Synclinorium?

- Acid igneous rocks?
- Angular unconformity?
- Aphanitic igneous rocks?
- Argillaceous rocks?
- Batholiths?
- Bedding plane?
- Breccias?
- Butte?
- Calcareous sedimentary rocks?
- Carbonaceous rocks?
- Carbonate minerals?
- Cleavage?
- Contact metamorphism?
- Disconformity?
- Felsic igneous rocks?
- Fissility?
- Glassy igneous rocks?
- Lacustrine sedimentary rocks?
- Hypabyssal igneous rocks?
- Igneous rocks?
- Laccoliths?
- Lapilli?
- Lopolith?
- Mafic igneous rocks?
- Mesa?
- Metamorphic rocks?
- Non-conformity?
- Paraconformity?
- Pegmatitic igneous rocks?
- Phacoliths?
- Phaneritic igneous rocks?
- Porphyritic igneous rocks?
- Plutonic rocks?
- Sedimentary rocks?
- Silicate minerals?
- Siliceous rocks?
- Sills?
- Tors?
- Unconformity?
- Aaaa lava flow?

- Acid lava cone?
- Active volcanoes?
- Adventives cone?
- Adventives crater?
- Basic lava cone?
- Caldera?
- Cinder cone?
- Crater?
- Dormant volcanoes?
- Extinct volcanoes?
- Felsic lava?
- Fire girdle of the pacific?
- Fumaroles?
- Geyser?
- Lahar?
- Mafic lava?
- Nested calderas?
- Nested craters?
- Pahoehoe lava?
- Parasite cone?
- Solfatara?
- Strato-cone?
- Tephra?
- Volcanic cones?
- Volcanic plugs?
- Vulcanicity?
- Conservative plate boundaries?
- Constructive plate boundaries?
- Destructive plate boundaries?
- Elastic rebound theory?
- Epicenter?
- Focus?
- Mercalli scale?
- Reservoir-induced seismicity(RIS)
- Richter magnitude scale?
- Tsunamis?
- Tsunamigenic earthquakes?
- Block mountains?
- Closing of Tethys?
- Conservative plate boundaries?

- Constructive plate boundaries?
- Cordilleras?
- Destructive plate boundaries?
- Folded mountains?
- Forelands?
- Geosynclines?
- Horst?
- Kratogen?
- Level of no strain?
- Lithogenesis?
- Medianmass?
- Mesogeosynclines?
- Monogeosynclines?
- Mountain chain?
- Mountain group?
- Mountain ranges?
- Mountain ridge?
- Mountain system?
- Opening of Tethys?
- Orogen?
- Orogenesis?
- Plate?
- Phase of regressional sea?
- Phase of transgressional sea?
- Plate tectonics?
- Polygeosynclines?
- Randketten?
- Bhangar?
- Cryoplain?
- Etchplain?
- Flood plains?
- Karst plains?
- Khaddar?
- Outwash plain?
- Panplain?
- Pediplain?
- Peneplains?
- Till plain?
- Wind eroded plains?
- Alkali takes?

- Alluvial fan lakes?
- Bitter lakes?
- Crater lakes?
- Delta lakes?
- Garden of lakes?
- Karst lakes?
- Morainic lakes?
- Oxbow lakes?
- Plunge pool lakes?
- Raft lakes?
- Rock basin lakes?
- Saline lakes?
- Tarn lakes?
- Thermokarst lakes?
- Block disintegration?
- Boulder cleaving?
- Cambering?
- Carbonation?
- Chelation?
- Congelifraction?
- Debris flow?
- Debris slides?
- Dirt cracking?
- Earth flow?
- Exfoliation?
- Flaking?
- Granular disintegration?
- Hydration?
- Hydrolysis?
- Kaolinization?
- Landslides?
- Massmovement?
- Mudflow?
- Oxidation?
- Rock creep?
- Rock falls?
- Rock slides?
- Rock wastes?
- Salt weathering?
- Shattering?

- Sheeting?
- Slaking?
- Slumping?
- Soil creep?
- Spalling?
- Weathering?
- Absteigende entwicklung?
- Accident?
- Aufsteigende entwicklung?
- Boschungen?
- Climatic interruption?
- Fastenbene?
- Geographical cycle?
- Gleichformige entwicklung?
- Haldenhang?
- Incised meanders?
- Knick point?
- Knick falls?
- Monadnocks?
- Panplanation?
- Panplains?
- Padiplanation?
- Paired terraces?
- Peneplains?
- Primarumpf?
- Piedmont treppen?
- Polycycles?
- Rejuvenation?
- Stream lengthening?
- Topographic discordance?
- Uniformitarianism?
- Uplifted peneplains?
- Valley deepening?
- Valley in valley topography?
- Valley widening?
- Annular drainage?
- Antecedent streams?
- Barbed drainage pattern?
- Beheaded stream?
- Captor stream?

- Centripetal drainage pattern?
- Consequent streams?
- Dendritic drainage pattern?
- Insequent streams?
- Inverted streams?
- Misfit valley?
- Obsequent streams?
- Parallel drainage pattern?
- Pinnate drainage pattern?
- Radial drainage pattern?
- Resequent streams?
- Sequent streams?
- Subsequent streams?
- Trellised drainage pattern?
- Twin-river system?
- Water gap?
- Wind gap?

LONG QUESTIONS:

- Discuss about internal structure of the earth.
- Discuss about the meaning, definition and scope of geomorphology.
- What is isostasy and discuss about the theory advocated by Airy and Pratt.
- What is igneous rock and discuss about salient features of it.
- Discuss about landforms formed by igneous rocks.
- What is igneous rock and discuss about various types of igneous rocks.
- What is sedimentary rock and discuss about its characteristics.
- What is metamorphic rock and discuss about its characteristics.
- What is metamorphism and discuss about various types of metamorphism.
- What is fold and discuss about its geometry and types.
- What is fault and discuss about its geometry and types.
- Discuss about continental drift theory.
- Critically analyse the evidences of continental drift theory.
- Discuss about plate tectonic theory.
- What is earthquake and discuss about its type and distribution.
- What is volcanism and discuss about its type.
- What is volcanism and discuss about its distribution.
- What is geosynclines and discuss about its type.
- Discuss about geosynclinal theory of mountain building.
- Discuss about convectional current theory of mountain building.
- What is weathering and discuss any one type of weathering.

- What is mass wasting and discuss its type.
- Discuss about Davisian cycle of erosion.
- Discuss about Penck's model in evolution of landforms.
- Differentiate between Davis model and Penck's model.
- Discuss about Erosional features formed by wind.
- Discuss about Depositional features formed by wind.
- Discuss about Erosional features formed by river.
- Discuss about Depositional features formed by river.
- Discuss about Erosional features formed in karst region.
- Discuss about Deposition features formed in karst region.
- Discuss about Erosional features formed in coastal region.
- Discuss about Depositional features formed in coastal region.
- Discuss about Erosional features formed by glacier.
- Discuss about Depositional features formed by glacier.

CORE-2: CARTOGRAPHY

SHORT QUESTIONS:

- What is cartography?

- Define cartography?
- What is map?
- Mention two features of map?
- What is the need of map?
- Why cartography is known as science of communication?
- What are the elements of communication used in cartography?
- What is link and channel in the science of cartography?
- What are the branches of cartography?
- What is gore?
- What is zone?
- What is latitude?
- What is longitude?
- Mention characteristics of latitude?
- Mention characteristics of longitude?
- What is graticules?
- What is International Date Line?
- What is equator?
- What is scale?
- What is plain scale?
- What is comparative scale?
- What is diagonal scale?
- What is map projection?
- What is standard parallel?
- What is standard meridian?
- What are parallels?
- What is ellipsoid?
- What is the use of ellipsoid?
- What is geoid?
- What is the use of geoid?
- What is cylindrical projection?
- What is conical projection?
- What is reduced scale in map projection?
- What is the importance of standard parallel?
- What is the importance of standard meridian?
- What are the features of cylindrical projection?
- What are the features of conical projection?
- What is slope?
- What are the elements of slope?
- What is dip?
- What is strike?

- What is stratigraphy?
- What is gradient?
- What is the Wentworth's method to determine the slope?
- What is the Smith method to determine the slope?
- What is vertical interval?
- What is horizontal equivalent?

LONG QUESTIONS:

- What is map and discuss about elements of map.
- Define map and discuss about its characteristics.
- Discuss cartography as a science of communication.
- What cartography and discuss about its scope and branches.
- What is spherical earth and its use.
- What is ellipsoidal earth and its use.
- What is geoid earth and its use.
- What is geographical coordinates and discuss its characteristics.
- What is scale and elaborate the step to construct plain scale.
- What is scale and discuss about the step to construct the comparative scale.
- Define scale and discuss about the step to construct the diagonal scale.
- What is map projection and discuss its type.
- What is cylindrical map projection and discuss its silent features.
- What is conical map projection and discuss its silent features.
- Discuss about Wentworth's and Smith's method to determine the slope.

CORE-3: HUMAN GEOGRAPHY

SHORT QUESTIONS:

- Define human geography?
- What is human ecology?

- What is race?
- What are major human races?
- Who gave zone and strata theory about races?
- What is Negrito race?
- What is Negro race?
- What is Australoid race?
- What is Mediterranean race?
- What is Mongolian race?
- What is cephalic index?
- Formula to calculate cephalic index?
- What is Dolichocephalic Index?
- What is Mesocephalic Index?
- What is Brachycephalic Index?
- What is orbito cephalic index?
- What is Platiccephalic?
- What is Hyplicecephalic?
- What is Orthocephalic?
- What is nasal index?
- What is Leptorrhine?
- What is Mesorrhine?
- What is Platyrrhine?
- What is Ulotrichi index?
- What is Cymotrichi index?
- What is Leiotrichi index?
- What is eye orbital index?
- What is religion?
- What is language?
- What is dialect?
- What is proto-language?
- What is austric language?
- What is Dravidian language?
- What is Indo-aryan language?
- What is Sino-tibetan language?
- What is sex ratio?
- What is population density?
- Factors determine population density?
- Factors determine population distribution?
- What fertility?
- What is birth rate?
- What is natural growth of population?

- What is migration?
- Types of migration?
- Factors determine migration?
- Factors determine mortality?
- What is push factor in migration?
- What is pull factor in migration?
- How to calculate crude birth rate?
- How to calculate crude mortality rate?
- What is settlement?
- What is rural settlement?
- What is urban settlement?
- What is town?
- What is a city?
- What is Megalopolis?
- What is Metropolis?
- What is Tyrannopolis?
- What is ghost town?
- What is census town?
- What is garrison town?
- What is satellite town?
- What is green belt?
- What is ghetto?
- Advantage of migration?
- Disadvantage of migration?
- What is hamlet?
- What is corrected birth rate?
- What is general fertility rate?
- What is total fertility rate?
- What is gross reproduction rate?
- What is net reproduction rate?
- What is standardised fertility rate?
- What is age-specific death rate?
- What is infant mortality rate?
- What is standardised death rate?
- What is life expectancy?
- What is population pyramid?
- What are the features of population pyramid?
- What is demographic transition?
- What is urban fringe?
- Characteristics of urban fringe?

- What is primary urban fringe?
- What is secondary urban fringe?
- What is umland?
- What is cultural area?
- What is cultural region?
- What is cultural realm?

LONG QUESTIONS:

- Elaborate the factors which determine the distribution of population.
- What are the major racial groups of the world? Discuss it in detail.
- Discuss about the characteristics of the racial group.
- Discuss about the elements to differentiate the racial groups.
- Discuss about various languages of the world.
- Discuss about various religions of the world and its distribution.
- What is cultural realm and discuss any one of them with salient features.
- Discuss about trends of population growth.
- Discuss about demographic transition theory.
- Discuss about population problems in developed world.
- Discuss about population problems in underdeveloped world.
- Discuss about age and sex composition of India.
- Discuss about population distribution in India.
- Discuss about occupational structure of India.
- Discuss about settlement types and its characteristics.
- Discuss about patterns of rural settlement.
- Discuss about patterns of urban settlement.
- Discuss about functional classification of towns.
- What is urbanization and discuss its factor.
- Discuss about trend of urbanization in India.
- Discuss about advantage and disadvantage of urbanization.
- Discuss about density of population in the world.

CORE-4: CLIMATOLOGY

SHORT QUESTIONS:

- What is aerology?
- What is dynamic climatology?
- What is ecological climate?

- What is geoclimate?
- What is human biometeorology?
- What is physical climatology?
- What is satellite climatology?
- What is an aurora?
- What is Boyle's gas law?
- What is Charles's gas law?
- What is cold point?
- What is combined gas law?
- What is mesopause?
- What is a Noctilucent cloud?
- What is stratopause?
- What is tropopause?
- What is albedo?
- What is absorption?
- What is atmospheric window?
- What is an aurora light?
- What are chromospheres?
- What is corona?
- What is counter radiation?
- What is diffuse blue light?
- What is diffuse reflection?
- What is effective radiation?
- What are faculae?
- What is insolation?
- What is inverse square law?
- What is law of scattering?
- What is net radiation?
- What is photosphere?
- What is photon?
- What is scattering?
- What is Rayleigh scattering?
- What is solar wind?
- What is Stefan-Boltzmann law?
- What is sunspot?
- What is Wien's displacement law?
- what is counter radiation?
- Ground radiation?
- What is inversion of temperature?
- Isanomalous temperature?

- What is isotherms?
- Radiation window?
- Sensible heat?
- Coriolis force?
- Ekman spiral?
- Frictional force?
- Friction layer?
- Geostrophic balance?
- Geostrophic wind?
- Gradient wind?
- Hydrostatic equilibrium?
- Isobars?
- Laminar flow?
- Pressure gradient?
- Turbulent flow?
- What is Doldrum?
- Equatorial westerlies?
- Ferrel cell?
- Hadley cell?
- Index cycle?
- Intertropical fronts?
- Jet streams?
- Rossby waves?
- Southern oscillation?
- Southern oscillation index?
- Walker circulation?
- Aerological monsoon?
- Blood rain?
- Burst of monsoon?
- Cherry blossoms?
- Chinook/foehn?
- Doctor?
- Heat island?
- Monsoon?
- Snow eater?
- Tidal surge?
- Western disturbances?
- Absolute humidity?
- Adiabatic lapse rate?
- Adiabatic process?

- Convective instability?
- Condensation?
- Dew?
- Dew point?
- Diabatic process?
- Dry adiabatic rate?
- Environmental lapse rate?
- Evaporation?
- Evapotranspiration?
- Frost?
- Frost point?
- Freezing rain?
- Glazed frost?
- Hail?
- Hoar frost?
- Humidity capacity?
- Hydrological cycle?
- Latent heat?
- Latent heat of condensation?
- Latent heat of fusion?
- Latent heat of sublimation?
- Latent heat of vaporization?
- Moist adiabatic rate?
- Mixing ratio?
- Neutral equilibrium?
- Potential evapotranspiration?
- Relative humidity?
- Rime?
- Saturated air?
- Saturation deficit?
- Sleet?
- Specific humidity?
- Stable equilibrium?
- Sublimation?
- Transpiration?
- Vapour pressure?
- Cheyenne fog?
- Cloud droplets?
- Cloud seeding?
- Dew point?

- Drizzle?
- Freezing rain?
- Hail?
- Inversion of rainfall?
- Leeward slope?
- Man-induced precipitation?
- Rainfall regime?
- Rime?
- Saturated air?
- Sleet?
- Virga?
- Windward slope?
- Air mass?
- Blood rain?
- Cold air mass?
- Lake-effect snow?
- Mechanical air mass modification?
- North-eastern?
- Synoptic climatology?
- Thermo dynamic modification?
- Warm air mass?
- Alberta low?
- Ana front?
- Anticyclone?
- Baroclinic surface?
- Barotropic surface?
- Blocking anticyclone?
- Cold front?
- Cold front occlusion?
- Colorado low?
- Convergent circulation?
- Cyclogenesis?
- Cyclone?
- Defomatory circulation?
- Divergent circulation?
- Dynamic cyclone?
- Front?
- Frontal theory?
- Frontal zone?
- Frontogenesis?

- Frontolysis?
- Halo?
- Insolation cyclone?
- Kata front?
- Line of discontinuity?
- Occlusion?
- Occluded front?
- Polar front?
- Rotatory circulation?
- Secondary cyclone?
- Stationary front?
- Storm tracks?
- Thermal cyclone?
- Translator circulation?
- Warm front?
- Warm front occlusion?
- Wave cyclone?
- Wave theory?
- Annular belt?
- Baguio?
- Cloud burst?
- Disaster?
- Down burst?
- Easterly waves?
- Extreme events?
- Fujita scale?
- Hurricanes?
- Hurricane wave?
- Storm surge?
- Taifu?
- Tornadoes?
- Tornado outbreak?
- Tornado missiles?
- Typhoons?
- Concentration of thermal efficiency?
- Empirical classification?
- Genetic classification?
- Geoclimate?
- Hekistotherms?
- Megatherms?

- Mesotherms?
- Microtherms?
- Moisture index?
- Precipitation effectiveness?
- Xerophytes?

LONG QUESTIONS:

- Discuss about composition and structure of the atmosphere.
- Discuss about the elements of weather and climate.
- Discuss about determinants of isolation and its distribution.
- Discuss about heat budget of the earth.
- Discuss about the factors of temperature distribution.
- What is temperature inversion and discuss its various types.
- Discuss about atmospheric pressure and related winds.
- Discuss about different planetary winds of the earth.
- Discuss about monsoon of India.
- Discuss about various local winds of the world.
- Discuss about general factors of general wind circulation.
- What is jet stream and discuss about various types of it.
- What is humidity and discuss its types of measurement.
- What is humidity and discuss the factors responsible for it.
- What is condensation and discuss about its various forms.
- What is cloud and discuss its type.
- What is precipitation and discuss its type.
- Give an account of Koppen's climatic classification.
- Give an account of Thornthwait's climatic classification.
- What is air mass and describe it with its classification.
- What is air mass and describe its characteristics and modification.
- Describe about the formation of thunderstorms and its suitable conditions.
- Discuss about tornado and factors responsible for its formation.
- What is cyclone and point out the suitable conditions for its formation?
- Discuss about tropical cyclone and weather associated with it.
- Discuss about the formation of temperate cyclones.
- Discuss about the weather associated with temperate cyclones.

CORE-5: OCEANOGRAPHY

SHORT QUESTIONS:

- Abyssal hills?
- Abyssal plains?
- Continental margins?

- Continental rise?
- Continental shelf?
- Continental slope?
- Deep sea fans?
- Geyots?
- Hypsometry?
- Ocean deeps?
- Ocean trenches?
- Seamounts?
- Submarine canyons?
- Absorption?
- Aphotic zone?
- Density?
- Halocline?
- Hydrological cycle?
- Insolation?
- Isotherms?
- Photic zone?
- Photosphere?
- Pycnocline?
- Reflection?
- Salinity?
- Scattering?
- Specific heat?
- Thermocline?
- Adsorption?
- Chlorinity?
- Halocline?
- Principle of constant proportion?
- Pycnocline?
- Residence time?
- Salinity?
- Salinometer?
- Sinks of ocean salinity?
- Thermocline?
- Authigenic deposit?
- Back wash?
- Biogenic sediments?
- Breaker waves?
- Break water?

- Bulk emplacement?
- Continental shelf?
- Continental slope?
- Cosmogenous sediments?
- Deep sea fans?
- Density current?
- Diatoms?
- Evaporites?
- Foraminifere?
- Glacial marine sediments?
- Graded bedding?
- Gravels?
- Gravity waves?
- Groins?
- Hydrogenous sediments?
- Lithogenous sediments?
- Littoral zone?
- Macro-biogenic sediments?
- Micro-biogenic sediments?
- Marina snowfall?
- Neritic sediments?
- Ocean deposits?
- Pelagic matter?
- Phosphorites?
- Retail sedimentation?
- Radiolarian?
- Relict sediments?
- Seawall?
- Shelf break?
- Terrigenous sediments?
- Turbidity currents?
- Undertow currents?
- Ambphidromic point?
- Apogean tides.
- Spring tide.
- Neap tide.
- Quadtree position.
- Conjunction position.
- Diurnal inequalities.
- Diurnal tidal pattern.

- Ebb.
- Ebb currents.
- Ebb tides.
- Flood currents.
- Flood tides.
- High tide water.
- Low tide water.
- Lunar tidal bulge.
- Nadir lunar bulge.
- Nadir tide.
- Nodal point.
- Nodal line.
- Opposition.
- Perigean tide.
- Semidiurnal tidal pattern.
- Solar bulge.
- Syzygy.
- Tidal bore.
- Tidal bulge.
- Tidal range.
- Tides.
- Zenith lunar bulge.
- Zenith tides.
- Centrifugal force.
- Centripetal force.
- Conjunction.
- Cotidal lines.
- Diurnal inequalities.
- Diurnal tidal pattern.

LONG QUESTIONS:

- Discuss about relief features of ocean.
- Discuss about relief features of Atlantic Ocean.
- Discuss about relief feature of Pacific Ocean.
- Discuss about the relief features of Indian Ocean.
- Discuss about the factors of distribution of salinity of the ocean.
- Discuss about the factors responsible for the distribution of temperature in the ocean.
- Discuss about the temperature and salinity diagram in oceanographic studies.
- Discuss about various types of ocean deposits.

- Discuss about various sources of ocean deposits.
- Discuss about the distribution of ocean deposits.
- What is wave and discuss about its characteristics.
- What is wave and discuss its type.
- What is current and discuss about the factors of ocean currents.
- Discuss about ocean currents of Pacific Ocean.
- Discuss about ocean currents of Indian Ocean.
- Discuss about ocean currents Atlantic Ocean.
- What is tide and discuss the forces responsible for the formation of it
- What is tide and discuss about its type.
- What is tide and discuss about the characteristics of tide.
- What is coral reef and discuss the factors for the formation of it.
- Discuss about various types of coral reef with diagram.
- Discuss about subsidence theory of Darwin and Dana.
- Discuss about the glacial control theory of Louis Agassiz.
- Discuss that ocean is the store house of resources.

CORE-6: STATISTICAL METHODS IN GEOGRAPHY

SHORT QUESTION:

- What is Data?
- What is Information?
- What is Spatial Data?
- What is Attribute data?
- What is Geographic Data?
- What is Data Matrix?
- What is primary data?
- What are the advantages of primary data?
- What are the disadvantages of primary data?
- What are the methods to collect primary data?
- What is secondary data?
- What are the sources of secondary data?
- What are the advantages of secondary data?
- What are the disadvantages of secondary data?
- What is nominal scale of data measurement?
- What is ordinal scale of data measurement?
- What is interval scale of data measurement?
- What is ratio scale of data measurement?
- What is frequency distribution?

- What is frequency curve?
- What is frequency polygon?
- What is histogram?
- What is relative frequency?
- What is group and ungroup data?
- What is central tendency?
- What is mean?
- What are the advantages of mean?
- What are the disadvantages of mean?
- Formula to calculate mean?
- Use of mean in geography?
- What is median?
- What are the advantages of median?
- What are the disadvantages of median?
- Formula to calculate median?
- Use of median in geography?
- What is mode?
- What are the advantages of mode?
- What are the disadvantages of mode?
- Use of mode in geography?
- What is geometric mean?
- What are the uses of geometric mean in geography?
- What is weighted mean?
- What are the uses of weighted mean in geography?
- What is sampling?
- What is universe?
- What is population in sampling?
- Types of sampling?
- What is random sampling?
- What are the advantages of random sampling?
- What are the disadvantages of random sampling?
- What is stratified sampling?
- What are the advantages of stratified sampling?
- What are the disadvantages of stratified sampling?
- What is systematic sampling?
- What are the advantages of systematic sampling?
- What are the disadvantages of systematic sampling?
- What is purposive sampling?
- What are the advantages of purposive sampling?
- What are the disadvantages of purposive sampling?

- What is dispersion?
- What is mean deviation?
- Formula to calculate mean deviation from the mean?
- Formula to calculate mean deviation from the median?
- Formula to calculate the mean deviation from the mode?
- Advantage of mean deviation?
- Disadvantage of mean deviation?
- What is standard deviation?
- Formula to calculate the standard deviation?
- Advantage of standard deviation?
- Disadvantage of standard deviation?
- What is variation?
- Formula to calculate coefficient of variation?
- What is chi-square test?
- What is the use of chi-square test?
- What is test of goodness of fit in chi-square test?
- What is test of independence in chi-square test?
- What is test of homogeneity in chi-square test?
- What is null hypothesis?
- What is alternative hypothesis?
- What is type one error?
- What is type two error?
- What is correlation?
- What is positive correlation?
- What is negative correlation?
- What is zero correlation?
- Formula to calculate correlation?
- What is the formula to calculate rank correlation?
- What is test of significance?
- Formula to calculate coefficient of determination?
- What is regression?
- What are the uses of regression?
- What is linear regression?
- What is the formula to calculate regression?

LONG QUESTION:

- Discuss about primary data and its method.
- Discuss about advantage and disadvantage of primary data.
- Discuss about advantage and disadvantage of secondary data.
- Differentiate between primary and secondary data.

- Discuss about scales of measurement in geography.
- What is mean and discuss about its advantage and disadvantage.
- What is Median and discuss about its advantage and disadvantage.
- What is mode and discuss about its advantage and disadvantage.
- What is sampling and describe its type.
- What is stratified sampling and its advantage and disadvantage.
- What is random sampling and its advantage and disadvantage.
- What is stratified sampling and its advantage and disadvantage.
- What is purposive sampling and its advantage and disadvantage.
- What is mean deviation and its advantage and disadvantage.
- What is standard deviation and its advantages and disadvantages.
- What is chi-square test and discuss about its type?
- What is correlation and discuss about its type?
- What are the advantage and disadvantage of correlation?
- What is linear regression and discuss its features?
- What is the difference between correlation and regression?

CORE-7: GEOGRAPHY OF ODISHA

SHORT QUESTIONS:

- Northern plain of Odisha
- Eastern Ghat zone
- Central table land
- Coastal region of Odisha
- The Mahanadi
- The Subarnarekha
- The Bramhani
- The Baitarani
- Little Sunderban
- Moist tropical forest of Odisha
- Dry tropical forest of Odisha
- Montane sub tropical forest of Odisha
- The Rushikulya
- The Baitarani
- The Salandi
- The Budhabalanaga
- Saline soil in Odisha
- Black soil in Odisha
- Brown soil in Odisha

- Deltaic soil in Odisha
- Alluvial soil in Odisha
- Gopabandhu Gramin Yojana

LONG QUESTIONS:

- Discuss the physiography of Odisha.
- Discuss the river system of Odisha.
- Briefly discuss about the climate of Odisha.
- Discuss on soils of Odisha.
- Discuss on natural vegetation of Odisha.
- Production and distribution of rice in Odisha.
- Production and distribution of pulses in Odisha.
- Production and distribution of oil seeds in Odisha.
- Agriculture problem and prospects of agriculture in Odisha.
- Production and Distribution of iron ore in Odisha.
- Production and Distribution of bauxite in Odisha.
- Production and Distribution of chromite in Odisha
- Production and Distribution of coal in Odisha.
- Problem and prospects of iron and steel industry in Odisha.
- Problem and prospects of aluminum industry in Odisha.
- Problem and prospects of textile industry in Odisha.
- Problem and prospects of thermal power plant in Odisha.
- Discuss distribution and growth of population of Odisha.
- Discuss on major tribes of Odisha.
- Growth of urban population and urban centers of Odisha.
- Discuss on road transport of Odisha.
- Discuss on railway transport of Odisha.

CORE: 8 EVOLUTION OF GEOGRAPHICAL THOUGHT

SHORT QUESTIONS:

- What is an Allocation Model?
- What is Alonso Model?
- What is Areal Differentiation?
- What is Behaviour Geography?

- What is Cartogram?
- What is Cartography?
- What is CBD?
- What is Central Place?
- What is Chorography?
- What is Command Economy?
- What is Compage?
- What is Concentric Zonal Model?
- What is Conurbation?
- What is Core-Periphery Model?
- What is Cultural Landscape?
- What is Cultural Area?
- What is Cultural Ecology?
- What is Cultural Hearth?
- What is Darwinism in Geography?
- What is Demographic Transition?
- What is Cultural Diffusion?
- What is Distance Decay Model?
- What is Ecological Fallacy?
- What is Ecology?
- What is Ecosystem?
- What is Empiricism?
- What is Environmental Determinism?
- What is Environmentalism?
- What is Epistemology?
- What is Ethnography?
- What is Ethnomethodology?
- What is Footloost Industry?
- What is Functionalism?
- What is General System Theory?
- What is Genre De Vie?
- What is Geocentric Concept in Geography?
- What is Geopiety?
- What is Growth Pole Model?
- What is Heartland?
- What is Holism?
- What is Human Agency?
- What is Human Geography?
- What is Humanistic Geography?
- What is Human Ecology?

- What is Iconography?
- What is Idiographic Geography?
- What is Inner City?
- What is Intervening Opportunities?
- What is Lamarckianism?
- What is Landscape?
- What is Landschaft?
- What is Law of Sea?
- What is Lebensraum?
- What is Limits of Growth?
- What is Locale?
- What is Locational Analysis in Geography?
- What is Locational Triangle?
- What is Mega City?
- What is Megalopolis?
- What is Mental Map?
- What is Mobility Transition Model?
- What is Model?
- Types of Model?
- What is Morphology?
- What is Multiple Nuclei Model?
- What is Naturalism?
- Nomothetic Geography?
- What is Ontology?
- What is Paradigm?
- What is Pays?
- What is Phenomenal Environment?
- What is Place?
- What is Positivism in Geography?
- What is Possibilism?
- What is Postmodernism?
- What is Pragmatism?
- What is Principle of Activity?
- What is Probabilism?
- What is Production of Space?
- What is Quantitative Methods in Geography?
- What is Qualitative Methods in Geography?
- What is Quantitative Revolution?
- What is Radicalism?
- What is Rank Size Rule?

- What is Region?
- What is Regional Geography?
- What is Resource?
- What is Rural Urban Fringe?
- What is Scientific Determinism?
- What is Sectoral Model?
- What is sense of Place in Geography?
- What is Sequent Occupance?
- What is Social Darwinism?
- What is Social Geography?
- What is Social Physics?
- What is Social Reproduction?
- What is Social Space?
- What is Space Economy?
- What is Spatial Analysis?
- What is Spatial Interaction?
- What is Spatial Science?
- Stages of Growth?
- What is system in Geography?
- What is System Analysis?
- What is Teleology?
- What is Terra-Incognita?
- What is Territoriality?
- What is Thematic Map?
- What is Time Geography?
- What is Topophilia?
- What is Welfare Geography?
- What is World Systems Analysis?

LONG QUESTIONS:

- Discuss about contribution of Greeks towards geography?
- Discuss about romans towards Geography?
- Discuss about the contribution of Indian scholars towards Geography?
- Discuss about the contribution of Arab scholars towards Geography?
- Elaborate about the contribution of Ptolemy towards Geography?
- Discuss about the contribution of Strabo towards Geography?
- Discuss about the contribution of Homer towards geography?
- Discuss about the Eratosthenes contribution towards Geography?
- Discuss about the contribution of Herodotus towards Geography?
- Discuss about contribution of Anaximander towards Geography?

- Discuss about contribution of Indian Geographers towards Dwipas?
- Discuss about the contribution of Indian Geographers about Eclipses?
- Discuss contribution of Al-Masudi towards Geography?
- Discuss about the contribution of Al-Biruni towards Geography?
- Discuss about the contribution of Ibn-Battuta about Geographical Concepts?
- Discuss about the contribution of Al-Idrisi towards Geography?
- Discuss about the contribution of ratzel towards Geography?
- Discuss about the contribution of Humboldt towards Geography?
- Discuss about the contribution of Ritter towards Geography?
- Discuss Blanche's contribution towards Geography?
- Discuss about the strategic view of Mackinder?
- Discuss about Environmental Determinism in Geography?
- Discuss about Possibilism in Geography?
- Differentiate between Systematic and Regional Geography?
- Differentiate between Physical and Human Geography?
- Differentiate between Idiographic and Nomothetic Geography?
- Discuss about Quantitative Revolution in Geography?
- Discuss about Advantages and Disadvantages about Quantitative Revolution?
- Discuss about Behaviouralism in Geography?
- Discuss about Radicalism in Geography?

CORE-9: ECONOMIC GEOGRAPHY

SHORT QUESTION:

- What is economic geography?
- What is primary activity?
- What is secondary activity?
- What is tertiary activity?
- What is quaternary activity?
- What is quinary activity?
- What is intensive agriculture?
- What are the features of intensive agriculture?
- What is intensive subsistence agriculture?
- Features of intensive subsistence agriculture?
- What is extensive subsistence agriculture?
- Features of extensive subsistence agriculture?
- What is plantation agriculture?
- Features of plantation agriculture?
- What is mediterranean agriculture?
- Features of mediterranean agriculture?

- What is humid farming?
- Features of humid farming?
- What is irrigated farming?
- Features of irrigated farming?
- What is dry farming?
- Features of dry farming?
- What is monoculture?
- Features of monoculture?
- What is duoculture?
- Features of duoculture?
- What is oligoculture?
- Features of oligoculture?
- What is commercial grain farming?
- Features of commercial grain farming?
- What is collective farming?
- Features of collective farming?
- What is cooperative farming?
- Features of cooperative farming?
- What is mixed farming?
- Features of mixed farming?
- What is isolated state?
- What is economic rent?
- How many concentric zones are there in von thunen's model?
- Characteristics of zone one of von thunen's model?
- Characteristics of zone two of von thunen's model?
- Characteristics of zone three of von thunen's model?
- Characteristics of zone four of von thunen's model?
- Characteristics of zone five of von thunen's model?
- Characteristics of zone six of von thunen's model?
- What is least cost theory?
- What is isodapanes?
- What is isotim?
- What is critical isodapanes?
- What is locational triangle?
- What is material index?
- What is labour coefficient?
- What is shifting cultivation?
- What is manufacturing industry?
- What is footloose industry?

LONG QUESTION:

- Discuss about different economic activities with examples.
- Factors affecting location of economic activity.
- Discuss about subsistence agriculture with its type.
- Discuss about von Thunen theory of agricultural location.
- Discuss about weber's theory of industrial location.
- Discuss about basic assumptions of von thunen's model.
- Discuss about basic assumptions of weber's industrial location theory.
- Discuss about weber's industrial location theory.
- What is agricultural region and discuss any one of it with salient features.
- Discuss about cotton industries in India.
- Discuss about factors determines the cotton industries.
- Discuss about factors determines the iron industries in India.
- Discuss about iron and steel industries in India.
- Discuss about one of the major industrial regions of the world.
- Discuss about industrial regions of India.
- What is special economic zone and its significance.
- Discuss about road transport and its importance in India.
- Discuss about railway transport and its importance in India.
- Discuss about airway in India and its importance.
- Discuss about the importance of waterways in India.
- Discuss about major waterways of the world.
- What is WTO and its importance.
- What is GATT and its importance.
- Discuss about components of trade and its type.

CORE-10: ENVIRONMENTAL GEOGRAPHY

SHORT QUESTIONS:

- Azonal soils?
- Biological factory?
- Contour bunding?
- Cutons?

- Edaphons?
- Field capacity stage?
- Humification?
- Microphytic feeders?
- Ped?
- Phytophages?
- Regoliths?
- Saprophages?
- Saturated stage?
- Soil profile?
- Soil structure?
- Tied-ridging?
- Wilting stage?
- Zonal soils?
- Abrupt speciation?
- Artificial selection?
- Biodegradation?
- Biogeochemical cycle?
- Biogeographical processes?
- Biomass?
- Biomass pyramid?
- Biosynthesis?
- Chemotrophs?
- Ecological productivity?
- Ecological pyramids?
- Energy pyramid?
- Food chain?
- Gradual speciation?
- Gross primary production?
- Natural selection?
- Net primary production?
- Speciation?
- Trophic level?
- Arboreal animals?
- Chaparrals?
- Alpine veld?
- Biome?
- Climbers?
- Epiphytes?
- Forest steppe?

- Formation?
- Grass savanna?
- Grass steppe?
- Hemi-epiphytes?
- Holo-epiphytes?
- Lhanos?
- Meadow steppe?
- Pseudo-epiphytes?
- Savanna?
- Shrub savanna?
- Sour veld?
- Steppe?
- Tree savanna?
- Tundra?
- Woodland savanna?
- Xerophytic structure?
- Disaster?
- Disaster prediction?
- Disaster preparedness?
- Disaster prevention?
- Disaster recovery?
- Disaster risk?
- Disaster vulnerability?
- Disaster warning system?
- Environmental hazard?
- Environmental stress?
- Extreme events?
- Conservative plate boundaries?
- Constructive plate boundaries?
- Destructive plate boundaries?
- Elastic rebound theory?
- Epicenter?
- Focus?
- Mercalli scale?
- reservoir-induced seismicity (RIS)
- Richter magnitude scale?
- Tsunami?
- Tsunamigenic earthquakes?
- Annualr belt?
- Bagulo?

- Cloud burst?
- Disaster?
- down burst?
- Easterly waves?
- Extreme events?
- Fujita scale?
- Hurricanes?
- Hurricane waves?
- Storm surge?
- Taifu?
- Tornadoes?
- Tornado outbreak?
- Tornado missiles?
- Typhoons?
- Acid rain?
- Agro forestry?
- Cloud seeding?
- Ecological view point?
- Economic deterministic?
- Environmental degradation?
- Greenhouse effect?
- Shifting cultivation?
- Air pollution?
- Acid rain?
- Bag filter?
- Cyclone separator?
- Decibel?
- Dieback?
- Electrostatic?
- Environmental pollution?
- Greenhouse effect?
- Non-point pollution?
- Point pollution?
- Smog?
- Solid waste?
- Sound pollution?
- Ecological resources?
- Environmental resources?
- Exhaustible resources?
- Inexhaustible resources?

- Managed ecological resources?
- Natural resources?
- Non-renewable resources?
- Non-utilitarian resources?
- Potential and developed resources?
- Renewable resources?
- Resource?
- Resource base?
- Resource reserves?
- Biodiversity?
- Biodiversity hotspots?
- Genetic biodiversity?
- Marine protected area (MPA)?
- Species biodiversity?
- Species extinction?
- Wetlands?

LONG QUESTIONS:

- What is environment and discuss about its type and characteristics.
- What is environment and discuss about its components.
- What is environmental control and discuss any one factor.
- Critically analyse how light controls environment.
- Discuss how temperature controls environment.
- How water controls environment, discuss it in detail.
- Discuss about the influence of topography on environment.
- How soil controls environment, critically analyse it.
- What is ecosystem and discuss its structure.
- What is ecosystem and discuss about its function.
- Discuss about trophic level, food chain and food web.
- Illustrate about the nitrogen cycle with suitable diagram.
- Illustrate about the carbon cycle with suitable diagram.
- What is biogeochemical cycle and discuss it in detail with diagram..
- Discuss about the energy flow in the ecosystem in detail with diagram.
- Discuss about equatorial biome and its characteristics.
- Discuss about sub-tropical biome and its characteristics.
- Discuss about temperate biome and its characteristics.
- Describe about polar biome and its characteristics.
- Discuss about the cause and source of water pollution
- Discuss about the remedial measures of water pollution.
- Describe the factors and source of air pollution.

- Describe about the remedial measures of air pollution.
- Discuss about various causes of environmental degradation.
- Discuss about the consequences of environmental degradation.
- Discuss about various environmental conservation methods.
- Discuss about various policies adopted in India to conserve the environment
- Discuss the Role of UNO to conserve the environment.
- Discuss the Role of UNEP to conserve the environment.
- Discuss the Role of UNDP to conserve the environment.
- Discuss the Role of IUCN to conserve the environment.
- Discuss about the strategy of sustainable development of environment.
- Discuss about the functions of GT in India.

CORE- 1 1: REGIONAL PLANNING

SHORT QUESTION:

- What is region?
- Define region?
- What is formal region?
- What is functional region?
- What is vernacular region?
- What is planning?

- What is problem?
- What is planning region?
- What is regional planning?
- Characteristics of planning region?
- What is ideal planning region?
- What is the need of planning?
- What is the need of five year plans in India?
- What is regional disparity?
- Causes of regional imbalances?
- What is growth pole?
- What is polarization?
- What is growth center?
- What is growth foci?
- What is growth point?
- What is external economy?
- What is agglomeration?
- What is linkage?
- What are the types of linkage?
- What is direct effect in growth pole theory?
- What is indirect effect in growth pole theory?
- What is primary growth pole?
- What is secondary growth pole?
- What is growth centre?
- What is economic space?
- What is geographic space?
- What is pre-industrial stage in core-periphery model?
- What is transitional stage in core periphery model?
- What is industrial stage in core periphery model?
- What is postindustrial stage in core periphery model?
- Types of economic space?
- Positive external economy?
- Negative external economy?
- Backward linkage?
- Forward linkage?
- Primary growth pole?
- Secondary growth pole?
- Physical linkage?
- Commodity linkage?
- Service linkage?
- Human linkage?

- Monetary linkage?
- Information linkage?
- What is backwater?
- What is an external economy?
- What is an internal economy?
- What is spread effect?
- What is backwash effect?
- What is growing point?
- What is north?
- What is south?

LONG QUESTION:

- What is region and discuss about various types of region.
- Discuss about characteristics of ideal planning region.
- Discuss about methods to delineate planning regions.
- Discuss about planning regions of India.
- Discuss about the cause of regional disparity in India.
- Discuss about growth pole model of Perroux.
- Discuss about theories of Myrdal.
- Discuss about Hirschman's theory of regional growth.
- Discuss about Rostow's growth model in regional planning.
- Discuss about IRDP and its features.
- Discuss about DPAP programme and its features.
- Discuss about the importance of tribal development agency in India.
- Discuss about the features of ITDP.
- Discuss about planning for national capital region.
- Discuss the concept and application of HDI in planning and development.

CORE-12: REMOTE SENSING AND GIS

SHORT QUESTIONS:

- What is remote sensing?
- What is GIS?
- What is EMR?
- What is EMS?
- Wave frequency?
- Wave length?

- Relation between wave frequency and length?
- Active remote sensing?
- Passive remote sensing?
- Radar?
- Sonar?
- Geosynchronous orbit?
- Sun synchronous orbit?
- What is conduction?
- What is convection?
- What is radiation?
- Wien's displacement law?
- Stefan-Boltzmann's law?
- Planck's law?
- What is refraction?
- Snell's law?
- Scattering?
- Rayleigh scattering?
- Mie scattering?
- Non-selective scattering?
- Lambertian surface?
- What is absorption?
- Specular reflection?
- What is radiant flux?
- What is radiance?
- Radiant energy?
- Radiant flux density?
- Radiant exitance?
- Hemispherical reflectance?
- Hemispherical transmittance?
- Hemispherical absorptance?
- Irradiance?
- Exitance?
- Principal point?
- Conjugate principal point?
- Focal length?
- Nadir point?
- Ground nadir point?
- What is resolution?
- Spectral resolution?
- Radiometric resolution?

- Temporal resolution?
- Spatial resolution?
- Orbit?
- Orbit period?
- Orbit cycle?
- Geosynchronous satellite?
- Sun-synchronous satellite?
- Vertical photograph?
- Tilted photograph?
- Focal plane?
- What is absorption band?
- What are the elements of visual interpretation?
- What is photogrammetry?
- What is end lap?
- What is side lap?
- What is parallax?
- What is relief displacement?
- What is stereoscopy?
- What is digital elevation model?
- What is orthophoto?
- What is perspective center?
- What is IFOV?
- What is FOV?
- What is TFOV?
- What is swath?
- What is pixel?
- Multi spectral remote sensing?
- Hyper spectral remote sensing?
- Panchromatic remote sensing?
- What is image?
- What is path?
- What is row?
- What is GPS?
- What is space segment?
- What is control segment?
- What is user segment?
- What is triangulation?
- What is trilateration?
- What is almanac?
- What is ephemeris?

- What is propagation time?
- What is pseudorange?
- What is navigation code?
- What is ranging code?
- What is carrier phase?
- Ephemeris errors?
- Differential positioning system?
- What is database?
- What is database system?
- Define GIS?
- What is spatial data?
- What is attribute data?
- What is raster data?
- What is vector data?
- What is buffering?
- What is overlay?
- Raster data model?
- Vector data model?
- What is chain coding?
- What is block encoding?
- What is run length encoding?
- What is TIN?
- What is DEM?
- Quadtree and binary tree encoding?
- What is spaghetti model?
- What is vertex dictionary model?
- What is topological model?
- What is DIME model?
- What is Georeferencing?
- What is registration?
- What is clip?
- What is dissolve?
- What is union?
- What is intersection?
- What is append?
- What is identity/

LONG QUESTIONS:

- Discuss about interaction of EMR with the atmosphere
- Discuss about the interaction of EMR with the terrain

- Discuss about the wave and particle model of EMR
- Discuss about the processes of remote sensing
- Discuss about the advantage and disadvantage of remote sensing
- Discuss about geometry of aerial photography
- Discuss about principles of stereo vision
- Discuss about image elements to interpret of satellite images.
- Discuss about various data used in GIS.
- Discuss about various raster model used in GIS
- Discuss about various vector model used in GIS.
- Discuss about various segments in GPS.
- Discuss about application of RS in cartography
- Discuss about application of GIS in map making
- Discuss the use of Remote Sensing in water resources
- Discuss about the use of Remote Sensing and gis in natural vegetation

CORE-13: GEOGRAPHY OF INDIA

SHORT QUESTIONS:

- Trans Himalaya
- The shiwalik
- Purvanchal Himalaya
- Peninsular India
- Coastal plain
- Western ghat
- Eastern ghat
- Sahyadri

- South west monsoon
- Urbanization
- Cropping pattern
- Commercial farming
- Plantation agriculture
- Kharif crop
- Rabi crop
- Regur
- Red and yellow soil
- Alluvial soil
- Laterite soil
- Tibet Himalaya
- Inter tropical convergence zone
- Anthracite coal
- Bituminous coal

LONG QUESTION:

- Physiography of Himalaya?
- Discuss about indo-Gangetic plain
- Discuss about peninsular India
- What is monsoon and discuss the south west monsoon
- Discuss about Indian monsoon
- How south west monsoon effect Indian economy
- Discuss various soil types in India
- Discuss various types of natural vegetation in India
- Briefly explain the climate of India
- The Himalayas are highly prone to landslides- discuss the causes
- Discuss on demographic characteristics of India
- Trends of population growth in India
- What is urbanization and discuss its advantages and disadvantages
- Discuss on major tribal group of India
- Discuss on population problem in India
- Briefly discuss on population policies in India
- Distribution and utilization of iron ore with special reference to India
- Distribution and utilization of coal with special reference to India
- Distribution and utilization of petroleum with special reference to India
- Distribution and utilization of natural gas with special reference to India
- Factors of development of automobile
- Discuss the factors of location of iron & steel industry
- Discuss the factors of location of cotton textile industry

- Types of irrigation in India
- Characteristics of Indian agriculture
- Cropping pattern in India
- Discuss the production and distribution of rice in India
- Discuss the production and distribution of wheat in India
- Discuss the production and distribution of tea in India
- Discuss the production and distribution of coffee in India
- Problems in Indian agriculture

CORE-14: DISASTER MANAGEMENT

SHORT QUESTIONS:

- What is hazard?
- What is disaster?
- What is man-made hazard?
- What is natural hazard?
- What is vulnerability?
- What is risk?
- What is environmental stress?
- What is compound disaster?
- What is disaster management?
- Principles of disaster management.

- What is hazard risk?
- What is component of hazard risk?
- Phases of pre disaster stage.
- Phases of post disaster stage.
- What is disaster preparedness?
- What is disaster mitigation?
- What is disaster prevention?
- What is relief?
- What is recovery?
- What is rehabilitation?
- What is disaster cycle?
- What is the full form of NGO?
- What is the full form of GO?
- What is the full form of NDMA?
- What is the full form of NIDM?
- What is the full form of NDRF?
- What is the full form of ODRAF?
- What is the full form of OSDMA?
- What is flood?
- What is storm surge?
- What is water logged flood?
- What is flash flood?
- What is dam failure flood?
- What is urban flood?
- Cause of flood.
- Positive effects of flood.
- Negative effects of flood.
- Elements of pre-flood disaster management.
- Elements of post-flood disaster management.
- Flood controlling measures.
- What is drought?
- What is meteorological drought?
- What is agricultural drought?
- What is hydrological drought?
- What is socio-economic drought?
- What is earthquake?
- What is focus?
- What is epicentre?
- Types of seismic waves.
- What is seismograph?

- What is seismology?
- Cause of earthquake.
- Constructive plate boundaries.
- Destructive plate boundaries.
- Constructive plate boundaries.
- Circum pacific belt.
- Mid-continental belt.
- Mid-Atlantic belt.
- What is Tsunami?
- What is coastal regulation zone?
- What is landslide?
- Factors of landslide.
- What is fall?
- What is sinking?
- What is slide?
- What is block slide?
- What is spreading?
- What is creeping?
- What is rock creep?
- What is talus creep?
- What is slide?
- What is slumping?
- What is earthflow?
- What is slide?
- What is mudflow?
- What is cyclone?
- What is low pressure center

LONG QUESTIONS:

- What is hazard and discuss its type in detail?
- What is disaster and discuss its type in detail?
- What is disaster cycle and discuss its component?
- What is disaster management and discuss the phases of pre disaster stage?
- What is disaster management and discuss the phases of post disaster stage?
- Discuss the role of NGO in disaster management.
- Discuss the functions of government organisation in disaster management.
- Discuss about the role of NDMA in disaster management.
- Discuss the role of NIDM in disaster management.
- Discuss the role of NDRF in disaster management.
- Discuss the role of ORDAF in disaster management.

- Discuss the role of OSDMA in disaster management.
- What is flood and discuss the factors of flood.
- Discuss about the factor and effect of flood.
- Discuss the cause and effect of cyclone.
- What is drought and discuss its type with effect.
- What is earthquake and discuss the cause of earthquake.
- Discuss the cause and adverse effect of earthquake.
- Discuss the adverse effect and safety measures of Tsunami.
- What is landslide and discuss various types of landslide.
- Discuss about effect of landslides.
- Discuss about the effect and cause of fire hazards.
- Discuss the adverse effect and remedial measures of industrial hazard.
- What is nuclear hazard and discuss its effect.
- Discuss about salient features of India's disaster management policy.

DSE-1: POPULATION GEOGRAPHY

SHORT QUESTIONS:

- What is census?
- Types of census?
- De facto census.
- De jure census.
- Merits of de facto census.
- Demerits of de facto census.
- Merits of de jure census.
- Demerits of de jure census.
- Salient features of census.
- Uses of census.
- Problems of census.
- What is national sample survey?

- Population density.
- Physiological density.
- Nutritional density.
- Agricultural density.
- Economic density.
- What is fertility?
- Crude birth rate.
- Corrected birth rate.
- General fertility rate.
- Age-specific fertility rate.
- Total fertility rate.
- Gross reproduction rate.
- Net reproduction rate.
- Completed fertility rate.
- Standardised fertility rate.
- Factors determining fertility rate.
- What is mortality?
- Crude death rate.
- Age specific death rate.
- Infant mortality rate.
- Standardised death rate.
- Cause specific death rate.
- Factors affecting death rate.
- What is migration?
- Pull factors of migration.
- Push factors of migration.
- What is immigration and emigration?
- What is in-migration and out-migration?
- Internal migration and external migration.
- Migration stream.
- Migration interval.
- Sources of data for internal migration.
- Vital statistics method to measure migration.
- Census survival rate method to measure migration.
- Migration rate method.
- Determinants of internal migration in India.
- Effects of migration.
- Phase of stagnation.
- Phase of steady growth.
- Phase of rapid growth.

- Phase of high growth.
- Rural to rural migration.
- Rural to urban migration.
- Urban to urban migration.
- Urban to rural migration.
- Age sex ratio.
- Age sex pyramid.
- Rural-urban composition.
- Literacy.
- Occupational structure.

LONG QUESTIONS:

- Discuss about the determinants of distribution of population distribution.
- Discuss about the sources of population data in India.
- Discuss about population problems in the world.
- Discuss about population problems in India.
- Critically analyse the Malthusian theory
- Elaborate demographic transition theory with diagram.
- Discuss the determinants of population growth in India.
- Discuss determinants of fertility in India.
- Discuss the methods to measure fertility in India.
- Discuss the factors affecting the mortality in India.
- Cite the methods to measure mortality in India.
- Discuss the factors responsible for migration.
- Discuss the effects of migration in India.
- Discuss about the age-sex composition of population in India.
- Discuss about the rural-urban composition of population in India.
- Discuss about the occupational structure in India.
- Discuss about the ageing problems of population in India.
- Discuss about age-sex ratio composition in India.
- Discuss about the trend of urbanization in India.
- Discuss about problems in urban areas in India.

DSE-2: RESOURCE GEOGRAPHY

SHORT QUESTIONS:

- What is resource?
- Define resource.
- What are resource creating factors?
- What is resistance?
- What is neutral stuffs?
- What is stock?
- What is reserve?
- What is potential resources?
- Elements of resources?
- What is inexhaustible resource?
- What is exhaustible resources?
- Renewable resources.
- Non-renewable resources.
- What is ubiquities resource?
- What is commonalities resource?
- What is rarities resource?

- What is Uniquities?
- What is unused resource?
- What is latent resource?
- What is tropical rain forest?
- Tropical deciduous forests.
- Mediterranean forests.
- Temperate deciduous forests.
- Temperate mixed forest.
- Coniferous forest.
- Tropical grassland forest.
- Temperate grassland forest.
- Tundra forest.
- What is energy?
- What is conventional energy?
- What are the major constituents of coal?
- Anthracite.
- Bituminous.
- Lignite.
- Peat.
- The Ruhr region.
- Uses of petroleum.
- Major petroleum producing areas in India.
- What is hydro-electricity?
- Advantages of hydro-electricity.
- Physical factors for hydro-electricity.
- Economic factors for hydro-electricity.
- Photo voltaics process in solar energy.
- Solar thermal technology in solar energy.
- What is geothermal energy?
- What is biomass energy?
- What is mineral?
- Types of mineral.
- Ferrous mineral.
- Ferro-alloy mineral.
- Non-ferrous mineral.
- Non-metallic minerals.
- Mineral fuels.
- Mineral fertilizers.
- Earth materials.
- Hematite.

- Magnetite.
- Limonite
- Siderite.
- Psilomelane.
- Bronite.
- Manganite.
- Hosmanite.
- Polianite.
- What is resource management?
- What is resource conservation?
- What is sustainability of resources?
- What is resource evaluation?
- What are the aims of resource conservation?

LONG QUESTIONS:

- What is resource, classify it and describe it in detail?
- Discuss about functional theory of resources.
- Discuss about distribution and utilisation of land resources.
- Discuss about the distribution and utilization of water resources.
- Discuss about forest resources and its distribution and utilisation.
- Classify coal and discuss about its distribution in India.
- Discuss about the distribution of petroleum in India.
- Discuss about distribution of solar energy in India.
- Discuss about the distribution of bauxite in India.
- Classify manganese and discuss about its distribution.
- Discuss about wind energy in India and its factors.
- Discuss about methods of conservation of forest resources.
- Discuss about the methods of conservation of land resources.
- Discuss about the methods of conservation of water resources.
- Discuss about the methods of conservation of energy resources.
- What is resource scarcity hypothesis?
- What is sustainable development of resources?

DSE-3: URBAN GEOGRAPHY

SHORT QUESTIONS:

- What is urban geography?
- Define urban geography.
- Mention nature of urban geography.
- What is urbanization?
- Mention indicators of urbanization.
- Mention determinants of urbanization.
- What is ancient town?
- What is medieval town?
- What is modern town?
- What is administrative town?
- What is industrial town?
- What is trade centre town?
- What is transport town?
- Mining towns.
- Educational towns.
- Religious towns.

- Defence or military towns.
- Health resorts and tourist towns.
- Diversified towns.
- What is functional index?
- What is regional functional dimension?
- What is urban morphology?
- Define urban morphology.
- What is linear layout of cities?
- What is radial layout of cities?
- What is gridiron plan of cities?
- What is radio concentric plan of cities?
- What is irregular plan of cities?
- What is mixed plan of cities?
- What is linear pattern of cities?
- Rectangular or square pattern of cities.
- Circular or oval pattern of cities.
- Semi-circular pattern of cities.
- Triangular pattern of cities.
- Radial pattern of cities.
- Star pattern of cities
- Amorphous cities.
- What is CBD?
- The zone of transition.
- The zone of independent working men's homes.
- The zone of better residence.
- The commuter's zone.
- Wholesale trade and light manufacturing.
- Low class residential.
- Medium class residential.
- High class residential.
- Heavy manufacturing.
- Outlying business district.
- Residential suburb.
- Industrial suburb.
- What is rural urban fringe?
- Define rural urban fringe.
- Characteristics of rural-urban fringe.
- Types of rural-urban fringe.
- Primary fringe.
- Secondary fringe.

- Determinants of rural-urban fringe.
- What is umland?
- Define umland.
- What is primary umland?
- What is secondary umland?
- What is gravity model in urban geography.
- Law of retail gravitation.
- What is breaking point model?
- What is propensity index of towns?
- What is central place?
- What is centrality?
- What is complementary area?
- What is threshold?
- What is range of goods?
- What is market principle?
- What is transport principle?
- What is administrative principle?
- What is rank size rule?
- How to calculate rank size rule?
- What is primacy index?
- How to calculate primacy index?
- What is hypothetical distance method?
- How hypothetical distance method is calculated?
- What is nearest neighbour method?
- What are determinants of town spacing?
- What is slum?
- Characteristics of slum.
- Causes of slum.
- What is garden city?

LONG QUESTIONS:

- What is urban geography; discuss its nature and scope.
- Discuss about the trend of urbanization in developed world.
- Discuss about the trend of urbanization in developing world.
- Discuss about the trend of urbanization in India.
- Give an account of functional classification of cities.
- Discuss about quantitative and qualitative methods to delineate cities.
- Criticize the basic assumptions Christaller's central place theory.
- Discuss in detail about central place theory.
- Discuss about morphology of urban settlement.

- What is unland and discuss about its determinant and types.
- What is CBD and discuss it in detail with diagram.
- Discuss about sector theory in detail with diagram.
- Discuss about multiple nuclei theory in detail with diagram.
- Discuss about urban issues and problems in detail.
- Discuss about determinants of slum and its type
- Discuss about air pollution in urban area and its remedies
- Discuss about water pollution in cities and its measures.
- Discuss about noise pollution in urban areas and its measures.
- Discuss about the urban planning in delhi in the context of planning and issues.
- Elaborate the case studies of Mumbai in the context of planning and issues.
- Discuss about the case studies of kolkata in the context of planning and issues.
- Elaborate the case studies of Bhubaneswar in the context of planning and issues.
- Elaborate the case studies of Chandigarh in the context of planning and issues.

DSE-4: FIELD WORK AND RESEARCH METHODOLOGY

SHORT QUESTIONS:

- What is research?
- Define research.
- Objectives of research.
- Types of research.
- Objectives of research.
- What is basic research?
- What is case study research?
- What is descriptive research?
- What is experimental research?
- Significance of research.
- Ethics of research.
- What is plagiarism?
- Characteristics of research.
- Types of data.
- What is primary data?
- Advantage of primary data.
- Disadvantage of primary data.

- What is secondary data?
- Advantage of secondary data.
- Disadvantage of secondary data.
- What is observation method?
- Advantage of observation method.
- Disadvantage of observation method.
- What is survey method?
- Advantage of survey method.
- Disadvantage of survey method.
- What is depth interview method?
- Advantage of depth interview.
- Disadvantage of depth interview.
- Focus group interview method.
- Objectives of focus group.
- Advantages of focus group method.
- Disadvantage of focus group method.
- What is case study method?
- Types of case studies.
- Advantage of case studies.
- Disadvantage of case studies.
- What is experimental method?
- What is completely randomized design?
- What is randomized block design?
- What is Latin square design?
- What is factorial design?
- What is action research?
- What is questionnaire?
- What is structured questionnaire?
- What is unstructured questionnaire?
- What are the qualities of questionnaire?
- Advantage of questionnaire.
- Disadvantage of questionnaire.
- What is closed ended questionnaire?
- What is open ended questionnaire?
- What is schedule?
- What is focus group discussion?
- What is PRA?
- What are the characteristics of PRA?
- Advantage of PRA.
- Disadvantage of PRA.

LONG QUESTIONS:

- Define research and its objectives.
- What is research, classify it and discuss one type of research.
- Discuss about significance and ethics of research.
- Discuss about role and utility of fieldwork in geography.
- What is primary data and discuss about methods for collecting it?
- Discuss about ex-post facto research.
- Discuss about field survey research.
- Discuss about observation techniques to collect data.
- Discuss about questionnaire to collect data with its type.
- Discuss about PRA in research.
- Discuss about focus grouped discussion in research.
- Discuss about the designing the research report.
- Elaborate the importance of literature review.
- Discuss about the style of citation in science.
- Discuss about the style of citation in social science.

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