

**CSB GENERAL GUIDELINES FOR WRITTEN EXAMINATION SUBJECT
GEOGRAPHY (TGT)**

(I) Outline of Syllabus for the Exam*

1. Physical Geography
2. Economic Geography
3. Human Geography
4. Regional Geography
5. Indian Geography
6. Practical Geography

*THE TOPICS SHOULD BE STUDIED WITH REFERENCE TO WORLD AND SPECIAL REFERENCE TO INDIA

(II) Level of knowledge expected from candidates

Post	Required Level Of Knowledge For CSB
TGT	i) Till Graduation level and B.Ed. & Topics of general awareness related to the subject. ii) Basic knowledge of computer with good communication skills

(III) Detailed Syllabus Guidelines with Topics & Sub-Topics

1. Physical geography

1.1 Geomorphology.

- a. Earth and the Universe:- The Sun, Planets & their motions, Asteroids, Comets, Meteors & Meteorites, galaxies,
- b. Co-ordinates of Earth & Related Problems:-Earth, its axis & motions, Impact of motions-formation of Day & Night, Cycle of season, eclipse, Earth's position with respect to sun etc., latitudes, longitudes & time; location of place on map/globe;
- c. Shape of Earth, Realms of Earth; continents, subcontinents, discovery of various continents, seas & oceans; map, globe & atlas, Interior of the earth:- sources of information about interior of earth, different layers of earth & seismology, including type of seismic waves.
- d. Rocks: Study of rocks, formation and classification with example & distribution of rocks.
- e. Plate tectonics:- Types of plate and their movements, classification of forces: affecting the Landforms (Landform ever changing, Internal & External Forces of land formation, structures produced by crustal bending, cracks, joints & folding & faulting, Crustal Fractures, Landform related to folding & faulting).
- f. Earthquakes: types, origin, distribution & measurement
- g. Volcanoes: types, forms & distribution, effects of volcanic activities
- h. Weathering and erosion:- mechanical weathering, chemical weathering and biological weathering.
- i. Land forms, process & agents of gradation (including concept of gradation): fluvial landforms:- land forms made by Rivers- erosional and depositional, course of a river & formation of land form features during its course, main drainage patterns, Aeolian landforms:- wind erosion and deposition, glacial:- glacier, types & movement of a glacier, gradational work of glacier, landforms caused by glacial erosion and deposition with examples, important glaciers in India & world, work of underground water, work of waves & coastal landforms, underground caves, limestone & chalk landforms, erosional plains.
- j. Major landforms of India & the world-Classification of Landforms & their geographical distribution, important ranges, passes, valleys & their types, mountains & peaks, rivers & swamps, plains & plateaus.
- k. India, its location, extent & Neighbouring Countries, major physical features.

1.2 Climatology:-

- a. Weather And Climate:- Factor Affecting Weather And Climate, Types Of Climate and Classification of climate.
- b. Atmosphere: structure and composition, Ozone hole, atmospheric phenomena, elements of weather & various instruments of measuring elements of weather.
- c. Distribution of temperature: horizontal and vertical distribution of temperature, heating of atmosphere, isotherms, lapse rate, inversion of temperature and heat budget, regional & seasonal contrast & distribution of temperature during cycle of seasons.
- d. Pressure and winds: factors affecting the distribution of atmospheric pressure, concept of winds, air & winds, type of winds-planetary winds, surface winds, pressure belts, wind circulation, trade winds, local winds, jet streams, land breeze & sea breeze, coriolis effects.
- e. Humidity, latent heat, absolute humidity, specific humidity and relative humidity
- f. Condensation & precipitation:- forms of condensation, forms & types of precipitation.
- g. Atmospheric Disturbances:-Air masses, fronts, cyclones and related phenomena, types of cyclone, anticyclones, clouds, types of clouds & their formation, & characteristics.
- h. Hydrological cycle:- evapo-transpiration and run – off & Infiltration Ground water

1.3 Oceanography:-

- a. Major oceans & important water bodies. Oceanic circulation
- b. Relief features of ocean floor:- continental shelf, continental slope, continental rise, abyssal plain, deeps or the Trenches, Island & Coral Reefs-Formation, types & important examples of Coral Reefs.
- c. Temperature:- horizontal and vertical distribution of temperature and distribution of ocean water, salinity of ocean water.
- d. Ocean movements, currents, types & drifting of ocean currents; tide, types of tides, economic significance of tides, waves.

1.4 Biogeography:-

- a. Soils: types, composition, formation, soil structure, minerals in soil, soil profile, soil forming factors, distribution of soil, conservation of soil.
- b. Environmental degradation and conservation:- ecological equilibrium, land spoilage/degradation, causes & conservation of land, water and air pollution, depletion of resources, conservation of resources, Water crisis, water conservation & water harvesting systems & practices in India.

2. Human & Economic Geography:-

2.1 Man and environment

- a. Types of environment -Physical environment, Human relationship with environment, Environmental hazard & its conservation, Sustainable Development.
- b. Wild Life in India:- flora & fauna in India, National parks & Bird Sanctuaries.

2.2 Population:-

- a. Growth & distribution of population:- magnitude of population growth, Factors that affect population growth, distribution of population, density of population, factor affecting the distribution of population.
- b. Composition of population & its graphic representation (with special emphasis on literacy rate, sex ratio & occupation structure, birth rate, death rate, growth rate, mortality rate, infant mortality), population as workforce.
- c. Migration: types & consequences, major International migration streams, migration in India.

2.3 Economic geography

- a. Economic activities: natural resources & their types, distribution of natural resources, development of resources, concept of potential & developed resources, Human occupation, primary activities, secondary activities, tertiary and quaternary activities, land use pattern, natural vegetation, agriculture(including major agriculture

practices), major types of crops-condition required to cultivate different crops, production & distribution, Challenges faced by Indian Agriculture & Measures to improve condition of Indian Agriculture, crops growing seasons in India, ground water & irrigation practices in India, horticulture, monoculture, pastoralism, fisheries, sericulture, forestry its products, lumbering, minerals, mining, power / energy resources (renewable, non-renewable atomic energy)& other resources; manufacturing industries, their classification, growth & development, major industrial regions.

- b. Water Management in India:-Major Indian Rivers, multipurpose projects, irrigation & hydro-power generation in India.
- c. Transportation & Communication System as a lifeline-major Ports, harbours, Routes(land, sea & air routes; including major trans-continental routes), transportation through pipelines.
- d. Trade:-Domestic & International trade, important aspects of international trade, balance of trade.
- e. Tourism in India:- Concept, Economic importance & contribution in Indian Economy, important tourist places, tourism Development Programmes.

2.4 Major Natural Regions

- a. Torrid region with special emphasis on equatorial region
- b. Warm Temperate region
- c. Cool Temperate Region
- d. Frigid Region
- e. Temperate Grasslands/ Mid Latitude Grasslands/Steppe Type Region
- f. Tropical Grasslands/Savana Type Region
- g. Tropical Monsoon Region
- h. Tropical Deserts/Sahara Type Regions
- i. Mid-Latitude Deserts
- j. East Coast Margin/China Type Region.
- k. Higher Latitude East Coast Margin/St. Lawrence Type Region

3. Practical

3.1 Cartography

- a. Maps & Map Elements: Scale, Types of Maps, use & their presentation, Representation of Geographical Data, Statistical Diagrams, Representation of Climatic Data & weather symbols, Topographical Map, Thematic Map, representation of relief features.
- b. Map projection:- types of projection, application/use of different map projections & limitations of Map Projection

3.2 Data:- Types Of Data, Tabulation And Collection of Data, Data Processing, Measures Of Central Tendency, Mean, Median, Mode, Correlation, Graphical Representation Of Data, Dot Map, Choropleth Map, Isopleth Map

4. Topics of General Awareness:- The test shall also include questions on general awareness and general interest related to the geography subject.

(IV) Recommended reference of books for study materials

<i>Name of book</i>	<i>Name of author</i>
<ul style="list-style-type: none"> • <i>Essentials Of World Regional Geography</i> • <i>Essentials Of Physical Geography</i> 	<ul style="list-style-type: none"> • <i>Christopher L. Salter, Joseph J. Hobbs</i> • <i>Robert E. Gabler, James F. Perersen, L. Michael Trepasso</i>
<ul style="list-style-type: none"> • <i>Physical Geography : A Landscape Appreciation</i> • <i>Population : An Introduction To Concepts And Issues</i> 	<ul style="list-style-type: none"> • <i>Tom L. McKnight, Darrel Hess</i> • <i>John R. Weeks</i>
<ul style="list-style-type: none"> • <i>National Geographic Atlas Of The World 7th</i> 	<ul style="list-style-type: none"> • <i>National Geography</i>

Name Of Book	Name Of Author
<ul style="list-style-type: none"> • <i>Environmental Geography</i> • <i>Fundamentals Of Geography</i> • <i>Geography Of Asia</i> • <i>Geography Of India</i> • <i>Global Warming</i> • <i>Human Geography</i> • <i>Human Geography</i> • <i>Jamia: Geographical Studies</i> • <i>Physical Geography</i> • <i>Physical Geography</i> • <i>Political Geography</i> • <i>Population Geography</i> • <i>Regional Oceanography: An Introduction</i> • <i>Systematic Agricultural Geography</i> • <i>Statistical geography : Methods And Applications</i> • <i>Social Geography</i> • <i>Population Geography</i> • <i>Physical Geography</i> • <i>Human Geography</i> • <i>Fundamentals Of Physical Geography</i> • <i>Transport Geography</i> 	<ul style="list-style-type: none"> • <i>H.M Saxena</i> • <i>Annand</i> • <i>Ranjit Tirtha</i> • <i>Majid Hussain</i> • <i>S.k. Singh</i> • <i>Amit Harishchandani And M.A. Choudhary</i> • <i>Majid Hussain</i> • <i>M.H. Queshi</i> • <i>Santanu Dev</i> • <i>Dr. R.N. Tikka</i> • <i>Sudepta Adhikari</i> • <i>Mohan Singh</i> • <i>Matthias Tomczak</i> • <i>Majid Husain</i> • <i>Zamir alvi</i> • <i>Aijazuddin Ahmad</i> • <i>Mohammad Izhar</i> • <i>R. Jaganathan</i> • <i>M.P. Sharma</i> • <i>Majid Husain</i> • <i>Chandra Vijay Purthy</i> • <i>H.M. Saxena</i>

Geomorphology:-

Physical Geography by Strahler and Strahler
Principles of Geomorphology by W.D. Thornbury
Physical Geography – Made Simple, Rupa Publisher
Physical Geography in Diagrams by Bunnett
Physical Geography by Savindra Singh
Geomorphology by Savindra Singh
Physical Geography-Dr. R.N. Tikka

Climatology:-

Climatology by D. S. Lal
General Climatology by Critchfield
Physical Geography – Made Simple, Rupa Publisher
Physical Geography by Strahler and Strahler
Physical Geography-Dr. R.N. Tikka

Oceanography:-

Oceanography by Sharma and Vatal

Human geography:-

Perspectives in Human Geography
Evolution of Geographic Thought by Majid Husain
Human and Economic Geography- Goh Cheo Long

Economic Geography:-

Economic Geography by Hershorn And Alexander
Economic and Social Geography- Made Simple by Rupa Publisher
Agricultural Geography by Masjid Husain

Population settlement geography:-

Human Geography by Majid Husain

Urbanization and Urban Systems in India by Ramachandran

Economic and Social Geography – Made Simple, Rupa Publishers

A Geography by Population - R.C. Chandna

Regional Planning – By Chand And Puri

Environmental Geography:-

Environmental Geography by Savindra Singh

Environmental Awareness by R. C. Chandna

Environmental Geography by Saxena

Political Geography by R. D. Dixit

-----We Wish You Good Luck-----