

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

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

#### 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 Hertshorn 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 Publishere

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-----

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