

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

**(I) Outline of Syllabus for the Exam\***

1. Geographical Thought
2. Physical Geography
3. Economic Geography
4. Human Geography
5. Systematic Geography
6. Regional Geography
7. 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
PGT	i) Till Post-Graduation level in Geography 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, Asteroids, Comets, Meteors & Meteorites, galaxies,
- b. Co-ordinates of Earth & Related Problems:-Earth & its motions, Impact of motions-formation of Day & Night, Cycle of season, eclipse etc., latitudes, longitudes & time; location of place on map/globe;
- c. Hypotheses on the origin of the earth & its age in respect of geological period:- gaseous hypotheses, nebular hypothesis, planetesimal hypothesis, tidal hypothesis, binary star hypothesis, process / method of estimation of earth's age.
- d. Geological time scale:- Precambrian era, Palaeozoic era, Mesozoic era, cenozoic era.
- e. Shape of Earth, Interior of the earth:- different layers of earth & seismology, including type of seismic waves/earthquake waves.
- f. Rocks: Study of rocks, formation and classification with example & distribution of rocks.
- g. 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, Nappe, Crustal Fractures, Landform related to folding & faulting ).
- h. Earthquakes: types, origin, distribution & measurement
- i. Volcanoes: types, forms & distribution, effects of volcanic activities
- j. Weathering and erosion:- mechanical weathering, chemical weathering and biological weathering, erosion cycle
- k. Land forms, process & agents of gradation: fluvial landforms:- land forms made by Rivers- erosional and depositional, course of a river & formation of land form features during its course, 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, glacier, ice sheet & ice bergs, work of underground water, work of waves & coastal landforms, underground caves, limestone & chalk landforms.
- l. Major landforms of the world-Classification of Landforms & their geographical distribution, important ranges, passes, mountains & peaks, rivers & swamps, plains & plateaus.

## 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, albedo, 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 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, Hadley, ferrel and polar cells, coriolis effects, Buys-Ballot's law describing atmospheric phenomena.
- e. Atmospheric Disturbances:- Air masses, fronts, cyclones and related phenomena, types of cyclone, anticyclones, clouds, types of clouds & their formation & characteristics.
- f. Climatic classification:- Koppen – Geiger system of climatic classification, climate types based on Koppen's classification.

## 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.
- d. Ocean movements, currents & drifting of ocean currents; tide, types of tides, economic significance of tides, waves, El-Nino and La-Nina.
- e. Measurement of sea distance.

## 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. Ecology, Ecosystem
- c. Environmental degradation and conservation:- ecological Equilibrium, land spoilage, water and air pollution, depletion of resources

## 2. Human & Economic Geography:-

### 2.1 Man and environment

- a. Geographical Thought, schools of thoughts, Determinism, Possibilism and neo-determinism, history of Scientific Geography, development of regional Geog, world famous geographers & their contribution in the field of geography.
- b. Concept of 'Geography', history/evolution of term 'Geography', its various branches & their propagators e.g. Economic Geography, Political Geography, Agriculture Geography, Resource Geography, Regional Geography & Human Geography. beginning of Human Geog. its development, Development Index & approaches, Neo-determinism.
- c. Types of environment -Physical environment, Human relationship with environment.

### 2.2 Population:-

- a. Growth & distribution of population:- Factors that affect population growth, 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.
- c. Demographic transition, stage of demographic transition, application of demographic transition model.
- d. Migration: types & consequences, major International migration streams.
- e. Human development & human development index.

## 2.2 Economic geography

- a. Economic activities: natural resources & their types, distribution of natural resources, development of resources, Human occupation, primary activities, secondary activities, tertiary and quaternary activities, agriculture(including major practices, major crops-condition required, production & distribution, horticulture, monoculture, pastoralism, fisheries, sericulture, forestry, minerals, mining, power / energy resources (renewable, non-renewable atomic energy )& other resources; manufacturing industries, their growth & development, major industrial regions.
- b. Settlement:- urban and rural settlements, patterns & form, factors that affects the settlements, urbanisation
- c. Transportation & Communication System as a lifeline-major Ports, 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.

## 2.3 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 Deserts/Sahara Type Regions
- h. Mediterranean Region
- i. Mid-Latitude Deserts
- j. East Coast Margin/China Type Region.
- k. East European / Cool Temperate Oceanic Region

## 3. Practical

### 3.1 Cartography

- a. Maps & Map Elements: Scale, Types of Maps, And 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 & limitations of Map Projection
- c. Cartographic Instruments.

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

**3.3 Field Survey:-** Plane Table Survey, intersection method, traversing method, resection method, Prismatic Compass Survey, Field Survey Procedure, Various instruments used in field survey.

**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

Name of book	Name of author
<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> Edition</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>National Geography</i></li> </ul>
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<i>Name Of Book</i>	<i>Name Of Author</i>
<ul style="list-style-type: none"> <li>• <i>Environmental Geography</i></li> <li>• <i>Fundamentals Of Geography</i></li> <li>• <i>Geographical Thought</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>Geography Of India</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>Kumawat</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. Tikkha</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>Majid Husain</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. Tikkha

#### **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. Tikkha

#### **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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