

PART-B

STATISTICS AND INDIAN ECONOMIC DEVELOPMENT

1. **Introduction and collection, organization of data:** Meaning, scope and importance of statistics in Economics. Collection and organisation of data. Census of India and National Sample Survey Organisation. **Statistical Tools and Interpretation:** Measures of Central Tendency. Geometric mean and harmonic mean. Measures of Dispersion. Lorenz Curve: Meaning and its application. Correlation - meaning. Measures of correlation - Karl Pearson's method, Spearman's rank correlation. Time series analysis. Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.
2. **Development Policies and Experience:** A brief introduction of the state of Indian economy on the eve of independence. Common goals of Five Year Plans, major controversies on planning in India. Main features, problems and policies of agriculture, industry and foreign trade.
3. **Economic Reforms since 1991:** Need & main features - liberalisation, globalisation and privatisation; an appraisal of LPG policies
4. **Current challenges facing Indian Economy:** Poverty and programmes for poverty alleviation. Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming. Human Capital Formation. Growth of Education Sector in India. Employment: opportunities and other related issues. Infrastructural Problems and policies. Sustainable Economic Development: Meaning; Effects of Economic Development on Resources and Environment.
5. **Development Experience of India:** A comparison with neighbours India and Pakistan, India and China, Issues: growth, population, sectoral development and other developmental indicators.

SYLLABUS FOR WRITTEN EXAMINATION FOR PGT (ENGLISH)

Section A

READING COMPREHENSION

Ability to comprehend, analyze and interpret unseen texts.
Three/four unseen reading passages may be set.

Section B

WRITING ABILITY

Ability to express views/opinions in a coherent & logical manner.

B1. One out of two tasks such as factual description of any event or incident, a report or a process.

B2. Writing one formal letter. Letter types include

- a) Business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies)
- b) Letter to the editors (giving facts/figures suggestions / opinions on an issue of public interest) on contemporary / current issues.
- c) Application for a job with cv.

B3. Writing personal opinion /views/stand in an article/debate/speech etc on a given socio-cultural issue -in a style/register suitable to the task set. Issues could relate to

- (a) environment
- (b) education
- (c) gender discrimination
- (d) economic disparity etc..

Section C

GRAMMAR AND USAGE

Ability to apply the knowledge of syntax and grammatical items & use them accurately in the context provided .

The following grammatical structures will be tested through error correction / editing/ gap filling / sentence completion / multiple choice questions :

- 1. Determiners
- 2. Tenses
- 3. Clauses
- 4. Modals
- 5. Voice

Section D

LITERATURE

- ✓ Shakespeare's works.
- ✓ Romantic period (e.g. Shelley, Wordsworth, Keats, Coleridge etc)
- ✓ 19th and 20th Century American and English Literature (e.g. Robert Frost, Hemmingway, Whitman, Hawthorne, Emily Dickinson, Bernard Shaw, Arthur Miller etc.)
- ✓ Modern Indian Writing in English (e.g. Anita Desai, Vikram Seth, Nissin Ezekiel, K N Daruwala, Ruskin Bond, R K Narayan, Mulk Raj Anand, Khushwant Singh etc)
- ✓ Modern writing in English from other parts of the world e.g. Latin America / Africa / Australia / South Asia.

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Syllabus for Written Examination for PGT (Geography)

Topic I: Geography as a discipline-

Geographical ideas in ancient, medieval & modern periods: the contributions of Varenus, Kant, Reine, Humboldt and Ritter. Influence of Richthofen and Darwin. Vidal-da-la Blache, F. Ratzel etc.

Contemporary geography: Post Second World War, Environmentalism, Areal Differentiation, spatial organization, Behavioural and perceptual Geography. Positivism in Geography. Humanistic Geography. Marxist Geography and critical social theory. Development in Indian Geography.

Topic-2 Origin and Evolution of the Earth-

Introduction to the solar system,

Motions of Earth: Rotation, Revolution, Occurrence of Day and Night; change of seasons; Latitudes and Longitudes; Finding time.

Earth's Interior: Origin of continents and ocean basins Wegener's Continental drift theory, Theory of Plate Tectonics Earthquakes and Volcanoes, Folding and faulting

Origin of the Earth: Nebular hypothesis (old Theory) and Big-Bang Theory. Evolution of continents, atmosphere and oceans.

Topic-3 Interior of the Earth and Distribution of oceans and continents-

Constitution of Earth's interior (based on Seismic Evidences), origin of the continents and ocean basins. Wegner's theory of Continental drift and Plate Tectonics. Plate movements and interactions-Volcanism and seismicity.

Topic-4 Landforms-

Mineral and rocks- classification of rocks, rock cycle. Important minerals geomorphic process of denudation Endogenic and Exogenic processes. Mass Wasting, Landslide, Work of River, Glacier Wind, Sea Waves etc, processes of soil formation.

Topic-5 Climate:

Atmosphere: Composition and structure. Insolation and temperature, Atmospheric pressure and winds, Atmospheric moisture, cyclones, classification of climate (Koeppen and Thornthwaite Schemes classification). Global climatic changes: Causes and effects.

Topic-6 Water (Ocean)

Geomorphology of the ocean floor, submarine relief features of Atlantic, Pacific and Indian Ocean. Movement of ocean water: Currents, tides and waves. Marine deposits and coral reefs.

Topic -7 Life on the Earth

Approaches in environmental Geography, landscape, ecosystem and perception approaches, Man and the Biosphere: Interactive and dynamic relationship. Human impact on biogeochemical cycles.

Topic-8 India:

Geographical basis of Indian State-territory; location, extent, shape and size.

Topic-9 Physiography:

Structure, Physiographic divisions, Drainage system and its evolution.

Topic-10 Climate, Vegetation and Soil-

Climate: factors controlling climate of India

Origin and mechanism of Indian monsoon; Seasons of India, Classification of climate of India (Koeppen's, Thornthwaite, Triwartha).

Soils: Type and distribution (I.C.A.R.); Soil problems, conservation of soil

Vegetation- Types & Distribution; conservation

Wild Life- its conservation.

Topic-11 Natural Hazards and disasters-

Causes, Consequences and management in India Environmental Hazards: Floods, droughts, cyclones, earthquakes and landslides; human adjustment to hazards; hazards perception and mitigation; environmental institutions and legislation in India.

Topic-12 Human Geography: Nature and Scope.