

**FURTHER DETAILS REGARDING MAIN TOPICS OF
PROGRAMME NO. 03/2017 ONLINE (Item No. 19)**

HIGHER SECONDARY SCHOOL TEACHER GEOGRAPHY

(CATEGORY NO. 292/16)

HIGHER SECONDARY EDUCATION

Module I Concepts and Trends in Geography

1. Geographical ideas of classical and modern period. Influence of Positivism, Pragmatism, Functionalism, Existentialism, Idealism, Marxism, Radicalism, Behavioralism and Humanism in Geographical ideas.
2. Four Traditions in Geography – five themes in Geography – Dualism and dichotomies in Geography.
3. Paradigm shifts in Geography - quantitative revolution – use of laws, models and theories – systems approach – Modern synthesis in Geography.

Module II Physical Geography

1. Concepts in Geomorphology – Structure of the earth – geologic time scale – tectonics – Isostasy – continental drift – plate tectonics – Weathering erosion – deposition – erosional and depositional landforms – cycle of erosion – slope development and theories – morphometric elements and parameters – valley development and drainage basin compositions – drainage classifications – morphogenetic regims – application of geomorphology.
2. Composition and structure of the atmosphere – insolation – heat budget – weather and climate – weather maps – horizontal and vertical distribution of temperature – Atmospheric pressure and winds – atmospheric moisture – humidity, evaporation, condensation, clouds and precipitation – cyclones, anticyclones, monsoons, Air masses – ocean atmospheric interactions – climatic classifications – climatic changes – climate and agriculture – climate and diseases – micro climate in urban areas.
3. Oceans in the world – Relief of ocean floor – distribution of temperature and salinity of ocean water – waves, tides, currents – coral reefs – deposits of ocean floors.
4. Ecosystems and their functioning – concepts of Biome, Ecotone and Community – biodiversity, natural hazards – degradation – emerging environmental issues – ecocrisis – environmental law and protection.

Module III Geography in India

1. Location and space relations – physiography – drainage – soil – climate – Indian monsoon, seasonal – natural vegetation types and their distribution.
2. Irrigation – Agriculture – characteristics and problems of Indian Agriculture – Cropping pattern- agricultural regions – food security.
3. Mineral resources and their distribution – localization – industrial scenario of India - factors and spatial pattern of major industries – industrial regions.
4. Population – spatial and demographic characteristics – different modes of transport in India – National and International Trade – ports and airports.
5. Geography of Kerala – physical setting – Agriculture – Minerals – Industries- Transportation- Population.

Module IV Urban Geography and Regional development

1. Origin and growth of urban centres – Urbanisation – Classification of Urban Centres – spatial and functional relationship of urban centres – Economic basis of urban settlements – basic and nonbasic concepts – urban morphology – CBD – Urban fringe – problems of urbanisation.
2. Concept of regions and regional planning- types of regions-hierarchy of regions – approaches to regional planning – Theories of regional growth – Growth pole growth foci – Regional imbalances and levels of development – District, Block and panchayat level planning in India – Backward and tribal area development programmes – watershed planning – people participation in planning process.

Module V Cartography and Geoinformatics

1. Development of cartography – maps and their classification – elements of maps- map projections – SOI topographic map design – map reproduction – Thematic maps- special purpose maps-Automation in cartography.
2. Remote sensing types – EMR and remote sensing – platforms – Aerial remote sensing – photogrammetry – satellite remote sensing – Sensors – scanning and orbiting mechanism – Resolution – spatial, spectral, radiometric and temporal resolution – satellite photographic system – image interpretation – image processing.
3. Concept of GIS – spatial and non-spatial data – coordinate system and reference – Geodetic datum – spatial data modelling – input of data – capabilities of GIS – spatial analysis using GIS – Modelling in GIS.

Module VI Regional and Economic Geography of the world

1. Major natural regions of the world and their characteristics.
2. Resources and their classification – Distribution and production of minerals and energy resources – Agricultural resources and their distribution – types of agriculture – crop combination analysis – Analysis of crop diversification and index of agricultural productivity – Distribution of major industries – transportation pattern of world trade – Trade blocs – Distribution of population – Concept of sustainable development.

Module VII Modern trends in Geography

Module VIII Research Methodology/Teaching Aptitude

I. TEACHING APTITUDE

- Teaching: Nature, objectives, characteristics and basic requirements;
- Learner's characteristics;
- Factors affecting teaching;
- Methods of teaching;
- Teaching aids;
- Evaluation systems.

II. RESEARCH APTITUDE

- Research: Meaning, Characteristics and types;
- Steps of research;
- Methods of research;
- Research Ethics;
- Paper, article, workshop, seminar, conference and symposium;
- Thesis writing: its characteristics and format.

Module IX(a) Salient Features of Indian Constitution

Salient features of the Constitution - Preamble- Its significance and its place in the interpretation of the Constitution.

Fundamental Rights - Directive Principles of State Policy - Relation between Fundamental Rights and Directive Principles - Fundamental Duties.

Executive - Legislature - Judiciary - Both at Union and State Level. - Other Constitutional Authorities.

Centre-State Relations - Legislative - Administrative and Financial.

Services under the Union and the States.

Emergency Provisions.

Amendment Provisions of the Constitution.

Module IX (b) Social Welfare Legislations and Programmes

Social Service Legislations like Right to Information Act, Prevention of atrocities against Women & Children, Food Security Act, Environmental Acts etc. and Social Welfare Programmes like Employment Guarantee Programme, Organ and Blood Donation etc.

Module X (a) Renaissance in Kerala

TOWARDS A NEW SOCIETY

Introduction to English education - various missionary organisations and their functioning- founding of educational institutions, factories, printing press etc.

EFFORTS TO REFORM THE SOCIETY

(A) Socio-Religious reform Movements

SNDP Yogam, Nair Service Society, Yogakshema Sabha, Sadhu Jana Paripalana Sangham, Vaala Samudaya Parishkarani Sabha, Samathwa Samajam, Islam Dharma Paripalana Sangham, Prathyaksha Raksha Daiva Sabha, Sahodara Prasthanam etc.

(B) Struggles and Social Revolts

Upper cloth revolts. Channar agitation, Vaikom Sathyagraha, Guruvayoor Sathyagraha, Paliyam Sathyagraha. Kuttamkulam Sathyagraha, Temple Entry Proclamation, Temple Entry Act .Malyalee Memorial, Ezhava Memorial etc.

Malabar riots, Civil Disobedience Movement, Abstention movement etc.

ROLE OF PRESS IN RENAISSANCE

Malayalee, Swadeshabhimani, Vivekodayam, Mithavadi, Swaraj, Malayala Manorama, Bhashaposhini, Mathnubhoomi, Kerala Kaumudi, Samadarsi, Kesari, AI-Ameen, Prabhatham, Yukthivadi, etc

AWAKENING THROUGH LITERATURE

Novel, Drama, Poetry, *Purogamana Sahithya Prasthanam*, *Nataka Prashtanam*, Library movement etc

WOMEN AND SOCIAL CHANGE

Parvathi Nenmenimangalam, Arya Pallam, A V Kuttimalu Amma, Lalitha Prabhu. Akkamma Cheriyan, Anna Chandi, Lalithambika Antharjanam and others

LEADERS OF RENAISSANCE

Thycaud Ayya Vaikundar, Sree Narayana Guru, Ayyan Kali. Chattampi Swamikal, Brahmananda Sivayogi, Vagbhadananda, Poikayil Yohannan (Kumara Guru) Dr Palpu, Palakkunnath Abraham Malpan, Mampuram Thangal, Sahodaran Ayyappan, Pandit K P Karuppan, Pampadi John Joseph, Mannathu Padmanabhan, V T Bhattathirippad, Vakkom

Abdul Khadar Maulavi, Makthi Thangal, Blessed Elias Kuriakose Chaavra, Barrister G P Pillai, TK Madhavan, Moorkoth Kumaran, C. Krishnan, K P Kesava Menon, Dr.Ayyathan Gopalan, C V Kunjuraman, Kuroor Neelakantan Namboothiripad, Velukkutty Arayan, K P Vellon, P K Chathan Master, K Kelappan, P. Krishna Pillai, A K Gopalan, T R Krishnaswami Iyer, C Kesavan. Swami Ananda Theerthan , M C Joseph, Kuttippuzha Krishnapillai and others

LITERARY FIGURES

Kodungallur Kunhikkuttan Thampuran, KeralaVarma Valiyakoyi Thampuran, Kandathil Varghese Mappila. Kumaran Asan, Vallathol Narayana Menon, Ulloor S Parameswara Iyer, G Sankara Kurup, Changampuzha Krishna Pillai, Chandu Menon, Vaikom Muhammad Basheer. Kesav Dev, Thakazhi Sivasankara Pillai, Ponkunnam Varky, S K Pottakkad and others

Module X (b) General Knowledge and Current Affairs

General Knowledge and Current Affairs

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.