



The Indian Geographical Society

Department of Geography

University of Madras

CHENNAI – 600 025, INDIA

Established in 1926: Registration Number - 256/72

25.04.2022

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To

The Head
Department of Geography

Sir / Madam,

Sub: Conduct of 12th Talent Test (Online) -Young Geographer-2022
for Geography students – 11th May, 2022 - Reg.

The Indian Geographical Society is organising the State-wide **12th Talent Test for Young Geographer-2022** for the final year UG and PG students of Geography Departments in Tamil Nadu on **11th May, 2022** (Wednesday) through **online mode**. The Executive Committee of the Society, through the coordinator, is organizing this event successfully with the support of Head of the colleges/institutes / Heads of Geography Departments.

I hereby request the Head of the Geography Departments to share the registration link <https://forms.gle/3s6oxQGMDiXvnp3b7> to students for registering themselves. Further, HoDs are requested to provide **final year UG/PG students' name along with their Registration number** to the Coordinator for successful conduct of the Talent Test.

Thanks for Your Cooperation!

Yours sincerely,

Dr. K. Kumaraswamy

(Talent Test Coordinator-2022)

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Copy to: The Principal/The Registrar



The Indian Geographical Society
Department of Geography, University of
Madras
CHENNAI – 600 025, INDIA

12th Talent Test - Young Geographer-2022

General Information

1. Talent Test **will be conducted through online mode in English language only for PG & UG students** for 1.00 hour consisting of 75 Multiple Choice Questions.
2. Syllabi for UG and PG talent tests are provided in the [IGS Website](#)
3. **Only Final year UG and PG** students of Geography are eligible for Talent Test.
4. The students should register their names individually by **online on or before 11th May, 2022**
5. The Coordinator may contact the HODs of respective Geography Departments for conducting the Talent Test.
6. The Head of the Geography Departments would share the registration link to collect the ***Students' Name, WhatsApp Number and Email ID.***
7. Talent Test is scheduled on **11th May, 2022 (Wednesday) between 11.00 a.m. and 12.00 Noon**
8. **No Registration Fee** for participating the online talent test and e-certificate will be provided to the eligible participating students

Details of Award and Rank Certificate

Award and Rank Certificate	
UG	PG
The IGS Founder Prof. N. Subrahmanyam Award	Prof. A. Ramesh Award
I	I
II	II
III	III

The toppers will be awarded during the IGS Annual General Body Meeting. All other participants will be given e - Certificate for participation. Please visit IGS website for registration forms and further information: <http://www.igschennai.org/>

Dates to Remember

Last Date for the Enrolment : 09 May, 2022 (Sunday)
Date of the Talent Test : 11 May, 2022 (Wednesday)



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12th Talent Test-Young Geographer-2022

Syllabus for Under Graduate Students

Geomorphology: Fundamental concepts; Factors controlling landform development; Endogenetic and Exogenetic forces; Continental drift and plate tectonics - Denudation process: weathering, mass movement and erosion - Landforms associated with fluvial, glacial, arid, coastal and karst.

Climatology: Composition and structure of the atmosphere; Insolation; Heat budget of the earth; Distribution of temperature, atmospheric pressure and general circulation of winds; Monsoons and jet streams; Air-masses; Fronts, temperate and tropical cyclones; Types and distribution of precipitation; Classification of world climates; Koppen's and Thornthwaite's schemes; Global warming.

Oceanography: Bottom relief of Indian, Atlantic and Pacific Oceans; Ocean deposits; Coral reefs; Temperature and salinity of the Oceans; Density of sea water; Tides and ocean currents; Sea-level changes.

Settlement Geography: Site, situation, types, size, rural and urban settlements; Settlement systems.

Economic Geography: Sectors of Economy: primary, secondary, tertiary and quaternary; Natural resources - Renewable and non-renewable; Conservation of resources; Classification of industries; Modes of transportation.

Geography of India: Physiographic divisions; Climate : Its regional variations; Vegetation types and vegetation regions; Major soil types; Coastal and Marine resources; Water resources; Irrigation; Agriculture; Agro-climatic regions; Mineral and power resources; Major industries and industrial regions; Population distribution and growth; Settlement patterns.

Cartography: Types of maps – Projections – Scale; Types - General purpose and Thematic maps; Choropleth, Isopleth and Chorochromatic maps and pie diagrams; Accessibility and flow maps; Remote sensing - Geographic Information System (GIS) - Global Positioning System (GPS).

Statistical Methods: Data sources and types of data; Statistical diagrams; study of frequency distribution and cumulative frequency; Measures of central tendency; Selection of class intervals for mapping; Measures of dispersion; Standard deviation.



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12th Talent Test-Young Geographer-2022

Syllabus for Post Graduate Students

Geomorphology: Fundamental concepts; Factors controlling landform development; Endogenetic and Exogenetic forces; Denudation process: weathering, mass movements and erosion, Geosynclines, mountain building, continental drift and plate tectonics; Concept of Geomorphic Cycle; Landforms associated with fluvial, glacial, arid, coastal and karst cycles, Slope forms and processes; Environmental and Applied Geomorphology.

Climatology: Composition and structure of the atmosphere; Insolation; Heat budget of the earth; Distribution of temperature, atmospheric pressure and general circulation of winds; Monsoons and jet streams; Stability and instability of the atmosphere; Air-masses; Fronts, temperate and tropical cyclones; Types and distribution of precipitation; Classification of world climates; Koppen's and Thornthwaite's schemes; Hydrological Cycle; Global warming.

Oceanography: Origin of ocean basins; Bottom relief of Indian, Atlantic and Pacific Oceans; Ocean deposits; Coral reefs; Temperature and salinity of the Oceans; Density of sea water; Tides and ocean currents; Sea-level changes.

Bio-Geography: Physical factors influencing world distribution of plants and animals; Forms and functions of ecosystem: Forest, grassland, marine and mountain ecosystem; Bio-diversity and its depletion through natural and man induced causes; Conservation and management of ecosystems; Environmental hazards and problems of pollution; Ozone depletion.

Geographic Thought : General character of Geographic knowledge during the ancient and medieval period; Foundations of Modern Geography: Contribution of German, French, British and American schools; Conceptual and methodological developments during the 20th century; Changing paradigms; Man and Environment, determinism and possibilism, areal differentiation and spatial organisation; Quantitative revolution; Impact of positivism, humanism, radicalism and behaviouralism in Geography.

Population Geography: Nature, scope, subject matter and recent trends; Patterns of world distribution, growth and density of population; Policy issues; Patterns and processes of migration; Demographic transition; Population-resource regions.

Settlement Geography: Site, situation, types, size, spacing and internal morphology of rural and urban settlements; Ecological processes of urban growth; Urban fringe; City region; Settlement systems; Primate city; Rank-Size rule; Settlement hierarchy; Christaller's Central Place theory; August Losch's theory of market centres.

Economic Geography: Location of economic activities and spatial organization of economies; Classification of economies; Sectors of Economy: primary, secondary, tertiary and quaternary; Natural resources -Renewable and non-renewable; Conservation of resources.

Agricultural Geography: Concept and techniques of delimitation of agricultural regions; Measurement of agricultural productivity and efficiency; Crop combinations and diversification; Von Thunen's Model; Agricultural systems of the world.

Industrial Geography: Classification of industries: Weber's and Losch's approaches; Resource based and footloose industries.

Geography of Transport and Trade: Modes of transportation and transport cost; Accessibility and connectivity: Inter-regional and Intra-regional: Comparative cost advantages.

Political Geography: Definition and scope of Political Geography; Geopolitics; Global strategic views (Heartland and Rimland theories);-Concept of nation, state and Nation-State; Boundaries and frontiers; Politics of world resources; Geography and Federalism.

Social Geography: Nature and scope of social geography; Social structure and social processes; Elements of Social Geography:- ethnicity, tribe, dialect, language, caste and religion; Concept of Social well-being.

Cultural Geography: Nature and scope of Cultural Geography; Environment and culture; Concept of culture-areas and cultural regions; Theories of tribal groups; Dwelling places as cultural expressions.

Regional Planning: Regional concept in Geography; its application to planning; Concept of planning region; Regional hierarchy; Types of regions and methods of regional delineation; Conceptual and theoretical framework of regional planning; Regional planning in India: Concept of development; Indicators of development; Regional imbalances.

Geography of India: Physiographic divisions; Climate : Its regional variations; Vegetation types and vegetation regions; Major soil types; Coastal and Marine resources; Water resources; Irrigation; Agriculture; Agro-climatic regions; Mineral and power resources; Major industries and industrial regions; Population distribution and growth; Settlement patterns; Regional disparities in social and economic development.

Cartography: Map as a tool in Geographical studies ; Types of maps: Techniques for the study of spatial patterns of distribution; Single purpose and composite maps; Choropleth, Isopleth and Chorochromatic maps and pie diagrams; Mapping of location specific data; Accessibility and flow maps.Remote sensing and computer application in mapping; Digital mapping; Geographic Information System (GIS) Global Positioning System (GPS): Thematic maps.

Statistical Methods: Data sources and types of data; Statistical diagrams; study of frequency distribution and cumulative frequency;. Measures of central tendency; Selection of class intervals for mapping; Measures of dispersion and concentration; Standard deviation; Lorenz curve; Methods of measuring association among different attributes; Simple and multiple correlation; Regressio;. Measurement of spatial patterns of distribution; Nearest-neighbour analysis; Scaling techniques, rank score, weighted score; Sampling techniques for geographical analysis.

**Name of the Universities and Colleges which are likely to participate the 12th
IGS Talent Test (for final year UG and PG students)**

Participating Departments

1.	Department of Geography, University of Madras, Chepauk, Chennai – 600 025
2.	Department of Geography, Madurai Kamaraj University, Madurai - 625 021.
3.	Department of Geography, Bharathidasan University, Tiruchirappalli - 620 024.
4.	Department of Geography, Central University of Tamil Nadu, Thiruvarur – 610 005
5.	Department of Environmental Remote Sensing and Cartography, Madurai Kamaraj University, Madurai - 625 021
6.	Department of Geography, Presidency College (Autonomous), Chennai – 600 005.
7.	Department of Geography, Queen Mary’s College (Autonomous), Chennai - 600 004.
8.	Department of Geography, Bharathi Women’s College (Autonomous), 85, Prakasam Salai, Chennai - 600 108.
9.	Department of Geography, Tourism and Travel Management, Madras Christian College (Autonomous), Tambaram, Chennai - 600 059.
10.	Department of Geography, Government Arts College (Autonomous), Salem – 636 007.
11.	Department of Geography, Arignar Anna Government Arts College, Namakkal – 637 002.
12.	Department of Geography, Sri Vijay Vidyalaya College of Arts and Science, Nallampalli, Dharmapuri – 636 807.
13.	Department of Geography, PSA College of Arts and Science for Women, Sollaikottai, Naickanahalli, Dharmapuri - 636704.
14.	Department of Geography, Government Arts College (Autonomous), Coimbatore - 641 018.
15.	Department of Geography, Nirmala College for Women (Autonomous), Coimbatore – 641 018.
16.	Department of Geography, Bharathiar University Arts & Science College, Amaikulam, Puliam Parai (P.O.), Gudalur - 643 212.
17.	Department of Geography, Government Arts College (Autonomous), Karur – 639 005.
18.	Department of Geography, Periyar E.V.R. College (Autonomous), Tiruchirappalli – 620 023.
19.	Department of Geography, Government Arts College, Thiruverumbur, Tiruchirappalli – 620 022.
20.	Department of Geography, Kundavai Nachiar Government Arts College for Women (Autonomous), Thanjavur -613 007.
21.	Department of Geography, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur - 613 503.
22.	Department of Geography, Sri Vijay Vidyalaya College of Arts and Science, Nallampalli, Dharmapuri – 636 807.
23.	Department of Geography, Government Arts College for Women (Autonomous), Kumbakonam - 612 002.
24.	Department of Geography, Sri Meenakshi Government Arts College for Women (Autonomous), Madurai – 624 002.
25.	Department of Geography, MVM Government Arts College for Women, Dindigul - 624 008.
26.	Department of Geography, Government Arts College for Women, Nilakottai, Dindigul - 624 208.
27.	Department of Geography, Government Arts and Science College for Women, Orathanadu, Thanjavur - 614 625.
28.	Department of Geography, Vellalar College For Women, Thindal, Erode - 638 012

Registration Link :

<https://forms.gle/3s6oxQGMDiXvnp3b7>

Website: <http://igschennai.org>