



# The Indian Geographical Society

## Department of Geography, University of Madras

CHENNAI – 600 005, INDIA

*Established in 1926: Registration Number - 256/72*

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**Editor:**

*Dr. K. Kumaraswamy*

**To**

The Professor and Head  
Department of Geography

Sir,

**Sub:** Conduct of Talent Test-Young Geographer-2011 for Geography students – 07<sup>th</sup> March, 2011-Reg.

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The General Body meeting of Indian Geographical Society has decided to organise the **Talent Test-Young Geographer-2011** for final year UG and PG students of the Dept. of Geography in Tamil Nadu. The EC has identified the following coordinators to organize this event successfully with HOD's of Geography Departments.

**Over all Coordinator**

**Dr. K. Kumaraswamy, Professor,** Department of Geography

Bharathidasan University, Tiruchirapalli *Mobile: 9442157347 email:kkumargeo@gmail.com*

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- 2 **K. Balasubramani (Tiruchirappalli Region)**  
Assistant Professor, Department of Geography  
Bharathidasan University, Palkalaiperur, Tiruchirapalli-620 024  
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- 3 **Dr. S.R. Nagarathinam (Coimbatore Region)**  
Professor and Head, Department of Geography  
Government Arts College (Autonomous), Coimbatore – 641 018  
*Mobile: 9894110585*
- 4 **Dr. P. Ilangovan (Madurai Region)**  
Professor and Head  
Department of Environmental Remote Sensing and Cartography  
Madurai Kamaraj University, Palkalai Nagar, Madurai- 625021  
*Mobile: 9442643430*
- 5 **Prof. G.Jagadeesan (Salem Region)**  
Professor and Head, Department of Geography  
Government Arts College (Autonomous), Salem- 636007  
*Mobile: 9443202011*

I hereby request (a) All the coordinators to contact the HOD's of nearby Geography Departments to conduct the Talent Test and (b) Request the HOD's of the Geography Departments to contact the coordinators and conduct the Talent Test successfully.

Yours sincerely,

(R.Jaganathan)



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## **Talent Test-Young Geographer-2012**

### **Instructions for Talent Test**

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1. Talent Test will be for 1.30 hours and consists of 100 questions without any choice.
2. Syllabi for UG and PG talent tests are provided in Annexure I & II
3. Final year UG and PG students of Geography are eligible for Talent Test.
4. Filled-in Application forms should be submitted to the Head of the Geography Department concerned on or before 17<sup>th</sup> February, 2012.
5. The coordinators will (a) contact the HOD's of nearby Geography Departments and (b) send the representatives for conducting Test.
6. The Head of the Departments of Geography will (a) collect the filled-in Application forms from students with registration fee and (b) contact the coordinators and conduct the Talent Test.
7. Talent Test is scheduled on 22<sup>nd</sup> February, 2012 between 11.00 AM to 12.30 PM.
8. Registration fee for UG Students Rs.50/- and for PG Students Rs.75/-. Only Cash should be collected from the candidates.

### **Details of Prizes**

	<b>UG</b>	<b>PG</b>
<b>Prize</b>	<b>Amount</b>	
<b>I</b>	<b>Rs. 5,000/-</b>	<b>Rs. 7,000/-</b>
<b>II</b>	<b>Rs. 3,000/-</b>	<b>Rs. 5,000/-</b>
<b>III</b>	<b>Rs. 2,000/-</b>	<b>Rs. 3,000/-</b>

Prizes will be awarded during International Conference / IGS Annual meeting, which will be held at University of Madras, Chennai on Saturday, **the 24th March, 2012**. All other participants will be given certificates of Participation. Please visit our website for further information: <http://www.igschennai.org/>

### **Dates to Remember**

**Last date for the Enrolment : 17-02-2012**  
**Date of the Talent Test : 22-02-2012**

## **Application Form for Talent Test-Young Geographer (UG/PG) - 2012**

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1. Name of the Student :
2. Date of Birth and Age :
3. Course and Subject :
4. Department/College Address :
5. Residential Address :
6. Phone / Mobile Number/email :
7. Particulars of Payment :
8. Signature of the Student :

Signature of the HOD

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## **Talent Test-Young Geographer-2012**

### **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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## **Talent Test-Young Geographer-2012**

### **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 20<sup>th</sup> 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.