

According to the Latest Syllabus



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**UGC
NET/JRF/SET**

**Objective
Geography**



(For Paper-II)

*A Unique Book Based
on New Pattern*

Dr. V. P. Sati

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NET/JRF/SET
Objective
Geography
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By
Dr. Vishwambhar Prasad Sati

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AT A GLANCE

We are living at the edge of survivality. The huge and stalwart problems of environment, economic development and backwardness of the region exist everywhere. There is a straight cut line between higher income people and lower income people. The competition in every respect is being increased, while the opportunities are comparatively very low. Consequently, the rate of unemployment is being accelerated at an unexpected level, then a question arises here how to maintain the respectable position in the society. Survival of the fittest is the law of nature and we always adapt to the nature in all walks of life. Our social structure is also at a juncture from where we learn the said law. The society always respects those who have the capacity to work hard and gain knowledge. No body worships the sinking Sun.

Now, at the present stage, competition is getting tough turn, as the number of competent is unaccounted. We have also to select the nature of job. Job some kind of providing the way to the social services, national services, bringing awareness among all the people, irrespective of their castes and creeds. Educational profession leads almost all the qualities of human ethics and ethical values. Particularly, the higher education has the charms of many kinds. Since, all the scientists, administrators, academicians, educationalists, leaders, journalists etc. come out from the benches of higher education. It has been said that the students of today who are sitting on the benches of schools and colleges are the leaders of tomorrow. Higher education is a mark of progress, prosperity, peace and penance. It tells us to be a long racer horse. For all that a best teacher is required.

Hard work does not go unawarded. I quote here the lines of the poem, 'The Broken wing' composed by Nightingale of India, Sarojini Naidu, 'Behold I rise to meet the destined spring and scale the stars upon my broken wings'. In Srimad Bhagwat Geeta, it is truly said, "that is whole and this is whole. The perfect has come out of the perfect. Yet the perfect remains, as before, perfect". Swami Vivekananda always used to say, 'Arise! Awake! And stop not till the goal is reached'. Whatever you will do you will get the result of the same either positive or negative.

Knowledge has no limit. Today is the world of information. Technological advancement brought us in an eddy of revolution, i.e., revolution of information. About of the space, stars, moons etc., which were the matter of miracles during the past now the means of awareness. We are going to be settled in the space. This is also called the tourism of space. Geography as the science of the earth surface has now an interdisciplinary subject, a study of all natural sciences and social sciences. There is no other subject having such a vast syllabus as it is of geography. Geography is very realistic, and scoring subject and the choice of all the students even irrespective of their discipline.

Presently, it is very tough to get the job in the higher education. It is because that the University Grants Commission, the supreme body of higher education, has imposed new terms and conditions for the eligibility of lectureship. A national level test is conducted by the UGC twice in a year. This test is equally important for the eligibility of lectureship and Junior Research Fellowship. There are three papers for appearing in the test. First paper has general nature, e.g., IQ, reasoning aptitude and general awareness. Second paper includes the objective questions of the professional paper selected for the examination. Fifty questions are given. Third paper has a descriptive nature.

Fortunately, geography is an interdisciplinary subject and its subject matter includes the all-NET examinations conducted by Council of Scientific Industrial Research (CSIR), Indian Council of

Agricultural Science (ICAR) and University Grants Commission (UGC). It means that a student of geography can appear in all the three NET examination conducted by the three scientific agencies.

The present effort aims to collect the huge information of geographic knowledge according to the newly revised syllabus in a book form. Previously, the syllabus of geography was limited to human geography. Now, it includes the physical portion of the geography and makes a wide and complete syllabus.

This book would be a milestone for those students who have geography as a professional subject. The present study is based on intensive and extensive nature of information collected from different sources. The Author of the book himself is NET qualified, working as an Assistant Professor of Geography. Answers of the multiple questions are given in the end of each chapter with wide explanation of selected questions.

No book can be published without the help of publishers. For the publication of this book, I tender my warm thanks to Shri Mahendra Jain, editor, Pratiyogita Darpan, for taking initiatives and allowing me to prepare this book. I also thanks to my family members, wife Nirmala, sister Usha, and my loving little Vishwani for providing me immense love and pleasure during the preparation of this book.

In the last but not the least, I hope that the student of geography will definitely lead the way to success in terms of NET examination and knowledge of geography after going through details of this book.

—Dr. Vishwambhar Prasad Sati

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Geomorphology : Fundamental concepts; Endogenetic and Exogenetic forces; Denudation and weathering; Geosynclines, Continental drift and plate tectonics; Concept of geomorphic cycle; Landforms associated with fluvial, glacial, arid, coastal and karst cycles.

Unit-2

Climatology : Composition and structure of the atmosphere; Heat budget of the earth; Distribution of temperature; Atmospheric pressure and general circulation of winds; Monsoon and jet stream; Tropical and temperate cyclones; Classification of world climates; Koppen's and Thornthwaite's schemes.

Unit-3

- (A) **Oceanography** : Ocean deposits; Coral reefs. Temperature and salinity of the oceans; Density of sea water; Tides and ocean currents.
- (B) **Bio-Geography** : World distribution of plants and animals; Forms and functions of ecosystem; Conservation and management of ecosystems; Problems of pollution.

Unit-4

Geographic Thought : General character of geographic knowledge during the ancient, and medieval period; Foundations of modern geography; Determinism and possibilism; Areal differentiation and spatial organisation.

Unit-5

- (A) **Population Geography** : Patterns of world distribution; Growth and density of population; Patterns and processes of migration; Demographic transition.
- (B) **Settlement Geography** : Site, situation, types, size, spacing and internal morphology of rural and urban settlements; City-region; Primate city; Rank-size rule; Settlement hierarchy; Christaller's Central Place theory; August Lösch's theory of market centres.

Unit-6

Economic Geography : Sectors of economy : primary, secondary, tertiary and quaternary; Natural resources : renewable and non-renewable :

- (A) Measurement of agricultural productivity and efficiency; Crop combination and diversification. Von Thünen's model.
- (B) Classification of industries : Weber's and Losch's approaches; Resource based and footloose industries.
- (C) Models of transportation and transport cost : Accessibility and connectivity.

Unit-7

- (A) **Political Geography** : Heartland and Rimland theories; Boundaries and frontiers.
- (B) **Social Geography** : Ethnicity; tribe; dialect, language, caste and religion; Concept of social well-being.

- (C) **Cultural Geography** : Culture-areas and cultural regions; Human races; Habital, economy and society of tribal groups.

Unit-8

Regional Planning : Regional concept in geography; Concept of planning regions; Types of regions; Methods of regional delineation; Regional planning in India; Indicators of development; Regional imbalances.

Unit-9

Geography of India : Physiographic divisions; Climate : its regional variations; Vegetation types and vegetation regions; Major soil types; Irrigation and agriculture; Population distribution and growth; Settlement patterns; Mineral and power resources; Major industries and industrial regions.

Unit-10

- (A) **Cartography** : Types of maps : Techniques for the study of spatial patterns of distribution; Choropleth; Isopleth and Chorochromatic maps and pie diagram; Mapping of location-specific data; Accessibility and flow maps.
Remote sensing and computer application in mapping; Digital mapping; Geographic Information System (GIS).
- (B) **Statistical Methods** : Data sources and types of data; 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; Regression.
Nearest-neighbour analysis; Scaling techniques; Rank score; Weighted score; Sampling techniques for geographical analysis.
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