



**GOA UNIVERSITY**  
Taleigao Plateau

## **SYLLABUS FOR GOA UNIVERSITY ADMISSIONS RANKING TEST (GU-ART) IN GEOGRAPHY**

### **I) Discipline of Geography:**

Introduction, Meaning, Definition, Multi Disciplinary Approach.

Pioneers in Geography and their Contributions

Major divisions and branches of geography (Physical & Human Geography).

Recent trends in Geography.

Major themes in Geography: Location, Place, Human-Environment Interaction, Movement, Regions.

### **II) Physical Geography and Domains of Earth:**

Basic Study of planets

Earth & Moon Relationship (Rotation, Revolution, Eclipse, Phases of Moon).

Composition of Lithosphere, Atmosphere & Hydrosphere

Orders of relief, Distribution of Oceans and Continents

Elements of weather and climate

Hydrological cycle.

Introduction to Geological Time Scale.

### **III) Human geography:**

Major schools of Thought: Environmental Determinism, Possibilism, Neo-Determinism.

Physical-Cultural Environment and major regions of the world

Introduction to culture and civilization, cultural realms, cultural landscapes. Basis of classification of cultural regions.

Socio-cultural regions in India.

Basis of racial classification, races of India, tribal societies in India, Ethnicity- inequality and conflicts.

Gender Inequality, Nutrition, Health and Diseases.

### **IV) Geography of Language and Religion:**

Linguistic Composition: Global linguistic mosaic, origin and characteristic, linguistic classification of India.

Religious Composition: Origin and regional distribution of religions, Major Religions and Cultures, Global and Indian Religious and Cultural Conflicts.

### **V) Economic Geography:**

Meaning, Definitions and significance.

Bases of world Economy: Physical, Economic, Cultural and Technological;

Classification of Economic activities.

## **VI) Natural Resources & World Agriculture:**

Study of Forest Resources, World Fisheries and Mineral Resources ( Metallic, Renewable and Non renewable Resources)

Types of Agriculture(Intensive Extensive Subsistence commercial Mixed farming and Plantation Agriculture)

Crops: Cereals & Cash Crops

Agricultural Land Use Theory by Von Thunen

## **VII) Manufacturing**

Theories of Manufacturing: Least Cost Theory, Profit Maximization Theory & Break Point Theory

Detailed Geographical study of Iron & Steel, Aluminum Industry, Petroleum Industry

Cotton Textile, Sugar Industry & Knowledge Intensive Industry (Electronic).

## **VIII) Study of Tertiary Activities:**

Major Routes of the world: Land Routes, Ocean Routes, Canals Routes & Air Routes.

World Trade: Bi-lateral, Multi-lateral

Retailing & Wholesaling

Christaller's Central Place Theory,

Trade Blocks: WTO, EU, BRICS, & SAARC

## **IX) Introduction to Cartography and Cartographic Techniques**

Shape of the Earth. Location of Places on the Globe, Latitude, Longitude and Time, Time Zones.

Conversion of Scale (RF to Verbal and Vice Versa)

Finding Directions, Measurement of Distances, Calculation of area.

Cartographic Representation of Population Data: Line & Bar Graph, Pie Diagram, Age-Sex

Pyramid, Ergo-graph, Flow Diagrams, Dot & Choropleth Maps, Proportional Circles, Spheres & Pictograms.

## **X) Representation of Cartographic Techniques:**

Projections: Definition, classification of projection, Uses and properties & Choice of projection.

Methods of Representation of Relief features

Sampling Techniques: Random Sampling, Systematic Sampling, Stratified sampling, Cluster Sampling & Purpose Sampling.

Classification and Tabulation of Data.

Calculation of Mean, Median & Mode

Measures of dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation & Variance

## **Suggested Readings / References**

1. Bengston & Van, G. H. Royan(1988): Fundamentals of Economic Geography, Prentice Hall, New Delhi
2. Bergwan, Edward E.,(1995): Human Geography: Culture, Connections and Landscapes, Prentice Hall, New Jersey. Boesch, H. (1964): A Geography of World Economy, Van Nostrand Co., New York.

3. Carr M., (1987): Pattern, Processes and Change in Human Geography, McMillan Education, London
4. Chandna, R C.,(2014): Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers, Delhi.
5. Chapman J. D., (1989): Geography and Energy, Longman, London.
6. De Blij H. J. and Murphy, Alexandar.,(2006): Human Geography, Culture, Society and Space, John Wiley, New York.
7. Fellman J. L.,(2007): Human Geography: Landscapes of Human Activities, Brown & Benchman, USA Hussain, Majid.,( 2011): Human Geography, Rawat Publishers, Jaipur
8. Hartshorne T. N. & Alexander J.W., (1988): Economic Geography, Prentice Hall, New Delhi,.
9. Jones C. F. and Darkenwald G.G.,(1975): Economic Geography, Macmillan & Co, New York,
10. Mishra R. P. and Ramesh A.,(2009): Fundamentals of Cartography, Concept Publishing Company, New Delhi.
11. Monkhouse F. J.and Wilkinson ,H.R.,(2009) : Maps and Diagrams, B. I Publications, New Delhi.
12. Pathak, C. R.,(2017): Spatial Structure and Development in India, RSAI.
13. Raise, E.,(2004): Principles of Cartography, McGraw Hills, London. Singh,G.,(2010): Map Works and Practical Geography, Vikas Publishing House, New Delhi.
14. Singh R, L., (1979): Elements of Practical Geography, . Kalyani Publishers
15. Singh, R.L. and Singh Rana P.B., (2008): Elements of Practical Geography, Kalyani Publishers, New Delhi
16. Smith, D. M.,(1971): Industrial location: An Economic Geographical Analysis, John Wiley, New York,.
17. Unisa, S. Ram, F. and Sekhar,T.V.,(2012): Population, Gender and Reproductive Health, IIPS, Mumbai.