

GEOGRAPHY (Code No. 029)

(2018-19)

Geography is introduced as an elective subject at the senior secondary stage. After ten years of general education, students branch out at the beginning of this stage and are exposed to the rigors of the discipline for the first time. Being an entry point for the higher education, students choose Geography for pursuing their academic interest and, therefore, need a broader and deeper understanding of the subject. For others, geographical knowledge is useful in daily lives because it is a valuable medium for the education of young people. Its contribution lies in the content, cognitive processes, skills and values that Geography promotes and thus helps the students explore, understand and evaluate the environmental and social dimensions of the world in a better manner.

Since Geography explores the relationship between people and their environment, it includes studies of physical and human environments and their interactions at different scales-local, state/region, nation and the world. The fundamental principles responsible for the varieties in the distributional pattern of physical and human features and phenomena over the earth's surface need to be understood properly. Application of these principles would be taken up through selected case studies from the world and India. Thus, the physical and human environment of India and study of some issues from a geographical point of view will be covered in greater detail. Students will be exposed to different methods used in geographical investigations.

Objectives:

The course in Geography will help learners to:

- Familiarise with key concepts, terminology and core principles of Geography.
- Describe locations and correlate with Geographical Perspectives.
- List/describe what students might see, hear, smell, at a place.
- List/describe ways a place is linked with other places.
- Compare conditions and connections in one place to another.
- Analyze/describe how conditions in one place can affect nearby places.
- Identify regions as places that are similar or connected.
- Describe and interpret the spatial pattern features on a thematic map.
- Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural features as well as human aspects and phenomena on the earth's surface.
- Understand and analyses the inter-relationship between physical and human environments and utilise such knowledge in reflecting on issues related to community.
- Apply geographical knowledge and methods of inquiry to emerging situations or problems at different levels-local, regional, national and global.
- Develop geographical skills, relating to collection, processing and analysis of spatial data/information and preparation of report including maps and graphs and use of computers where ever possible; and to be sensitive to issues.

- Secondary activities-concept; manufacturing: types - household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries.
- Tertiary activities-concept; trade, transport and tourism; services; people engaged in tertiary activities - some examples from selected countries.
- Quaternary activities-concept; people engaged in quaternary activities - case study from selected countries.

Unit 4: Transport, Communication and Trade**24 Periods**

- Land transport - roads, railways; trans-continental railways.
- Water transport- inland waterways; major ocean routes.
- Air transport- Intercontinental air routes.
- Oil and gas pipelines.
- Satellite communication and cyber space- Importance and usage for geographical information; use of GPS.
- International trade-Bases and changing patterns; ports as gateways of international trade, role of WTO in International trade.
- Ocean: National rights and international treaties.

Unit 5: Human Settlements**10 Periods**

- Settlement types - rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries.

Map Work on identification of features based on 1-5 units on the outline/Physical/Political map of World.

05 Periods**Part B. India: People and Economy****90 Periods****Unit 6: People****15 Periods**

- Population: distribution, density and growth; composition of population - linguistic, religious; sex, rural-urban and occupational-regional variations in growth of population.
- Migration: international, national-causes and consequences.
- Human development: selected indicators and regional patterns.
- Population, environment and development.

Unit 7: Human Settlements**10 Periods**

- Rural settlements - types and distribution.
- Urban settlements - types, distribution and functional classification.

Unit 8: Resources and Development**30 Periods**

- Land resources- general land use; agricultural land use, Geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber), agricultural development and problems.
- Water resources-availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management.
- Mineral and energy resources- distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non-conventional energy sources (solar, wind, biogas) and conservation.
- Industries - types, factors of industrial location; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatisation and globalisation on industrial location; industrial clusters.
- Planning in India- target group area planning (case study); idea of sustainable development (case study).

Unit 9: Transport, Communication and International Trade**15 Periods**

- Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; Geographical information and communication networks.
- International trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports.

Unit 10: Geographical Perspective on Selected Issues and Problems**15 Periods**

- Environmental pollution; urban-waste disposal.
- Urbanisation, rural-urban migration; problems of slums.
- Land degradation.

Map work on locating and labelling of features based on above units on outline map of India.

05 Marks**Part-C Practical Work****40 Periods****Unit 1: Processing of Data and Thematic Mapping****25 Periods**

- Type and Sources of data: Primary, Secondary and other sources.
- Tabulating and processing of data; calculation of averages, measures of central tendency, deviation and rank correlation.
- Representation of data- construction of diagrams: bars, circles and flowchart; thematic maps; construction of dot; choropleth and isopleth maps.
- Data analysis and generation of diagrams, graphs and other visual diagrams using computers.

Unit 2: Field Study or Spatial Information Technology**15 Periods**

Field visit and study: map orientation, observation and preparation of sketch; survey on any one of the local concerns; pollution, ground water changes, land use and land-use changes, poverty, energy issues, soil degradation, impact of floods and drought, catchment area of school, Market survey and Household survey (any one topic of local concern may be taken up for the study; observation and questionnaire survey may be adopted for the data collection; collected data may be tabulated and analysed with diagrams and maps). Students can be given different topics to get more insight into various problems of society.

OR**Spatial Information Technology**

Introduction to GIS; hardware requirements and software modules; data formats; raster and vector data, data input, editing and topology building; data analysis; overlay and buffer.

Prescribed Books:

1. Fundamentals of Physical Geography, Class XI, Published by NCERT
2. India, Physical Environment, Class XI, Published by NCERT
3. Practical Work in Geography, Class XI, Published by NCERT
4. Fundamentals of Human Geography, Class XII, Published by NCERT
5. India - People and Economy, Class XII, Published by NCERT
6. Practical Work in Geography, Class XII, Published by NCERT

Note: The above textbooks are also available in Hindi medium.

QUESTION PAPER DESIGN 2018-19								
GEOGRAPHY (Theory)			Code No. 029			CLASS-XII		
Time: 3 Hours						Max. Marks: 70		
S. No	Typology of Questions	Learning Outcomes & Testing Skills	Short Answer (1 Mark)	Short Answer (3 Marks)	Long Answer I (5 Marks)	Map Skills based (5 Marks)	Marks	%
1	Remembering - (Knowledge based Simple recall questions, to know specific facts, terms, concepts, principles, or theories; Identify, define, or recite, information), Map skill based questions (Identification, location)	<ul style="list-style-type: none"> Reasoning Analytical Skills Critical thinking 	3	1	1	1 (identify location)	16	23%
2	Understanding - (Comprehension –to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)		1	1	2	-	14	20%
3	Application (Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide an example, or solve a problem)		-	1	2	-	13	19%
4	High Order Thinking		2	1	2	1	20	28%

	Skills (Analysis & Synthesis- Classify, compare, contrast, or differentiate between different pieces of information; Organize and/or integrate unique pieces of information from a variety of sources) (includes Map interpretation)				(Map interpretation)		
5	Evaluation - (Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes)	1	1+1(values based)	-	-	7	10%
Total		7×1=7	6×3=18	7×5=35	2×5=10	70 (22) Practical 30	100%
Time Estimated		15 min.	60 min.	70 min.	20 min	165+15 = 180 Min.	

Note: No Chapterwise weightage, care to be taken to cover chapters in both books.

I. Weightage to content (Chapter nos. of NCERT textbook are given against unit within brackets)

Part A : Fundamentals of Human Geography (Textbook I) 35 marks

A	Fundamentals of Human Geography	35 Marks
	Unit 1 : Human Geography (Ch. 1)	30
	Unit 2 : People (Ch. 2 to 4)	
	Unit 3 : Human Activities (Ch. 5 to 7)	
	Units 4 : Transport, Communication and Trade (Ch. 8 and 9)	
	Unit 5 : Human Settlements (Ch. 10)	
	Map Work-----World map (for identification only relating to Units 1 to 5)	5
	Total	35

II. Weightage to content (Chapter nos. of NCERT textbook are given against unit within brackets)

Part B : India, People and Economy (Textbook II)

35 marks

B	India : People and Economy	35 Marks
	Unit 6 : People (Ch. 1-3)	30
	Unit 7 : Human Settlements (Ch. 4)	
	Unit 8 : Resources and Development (Ch. 5-9)	
	Units 9 : Transport, Communication and International Trade (Ch. 10-11)	
	Unit 10 : Geographical Perspective on selected issues and problems (Ch. 12)	
	Map Work	5
	Total	35
	Grand Total	70

Note: Value Based Question from any Unit 1-10.

III. Weightage to Difficulty Level

Estimated Difficulty Level	Percentage
(i) Easy (E)	20%
(ii) Average (AV)	60%
(iii) Difficult (D)	20%

Scheme of Option: No Internal choice except for blind students.

Fundamental of Human Geography
Textbook I (NCERT)

Revised Map Items for identification only on political map of the world

Unit - 1	Ch -1	Nil
Unit - 2	Ch. 2 to 4	<ol style="list-style-type: none"> 1 A large country in each confinement in terms of area. 1 Area having low and high density of population of each continent. 2 Countries having low/high growth rate of population.
Unit - 3	Ch. 5 to 7 Primary Activities.	<ol style="list-style-type: none"> 1 Areas of subsistence gathering. 2 Major areas of nomadic herding of the world. 3 Major areas of commercial livestock rearing. 4 Major areas of extensive commercial grain farming. 5 Major areas of mixed farming of the World. 6 Major areas of mediterranean agriculture of the World.
	Secondary Activities	<ol style="list-style-type: none"> 1 Ruhr region, Silicon Valley, Appalachian region, Great lakes region.
Unit - 4	Ch. 8 to 9	<ol style="list-style-type: none"> 2 Transcontinental Railways: Terminal Station of transcontinental railways. 3 Major Sea Ports: Europe: North Cape, London, Hamburg North America: Vancouver, San Francisco, New Orleans South America: Rio De Janeiro, Colon, Valparaiso Africa: Suez, Durban and Cape Town Asia: Yokohama, Shanghai, Hongkong, Aden, Colombo, Karachi, Kolkata Australia: Perth, Sydney, Melbourne and Auckland 4 Inland Waterways: Suez canal, Panama canal, Rhine waterway and St. Lawrence Seaway 5 Major Airports: Asia: Tokyo, Beijing, Irkutsk, Vladivostok, Mumbai, Jedda, Aden Europe: Moscow, London, Paris, Berlin and Rome North America: Chicago, New Orleans, Mexico City South America: Bogota, Brasilia, Buenos Aires, Santiago Australia: Drarwin and Wellington.
Units - 5	Ch. 10	Mega cities of the world

India – People and Economy**Textbook II (NCERT)****Revised Map Items for locating and labelling only on the outline political map of India**

Unit – 6 &7	Ch -1 to 4	<ul style="list-style-type: none"> • State with high level of urbanized and low level of urbanization • One state higher level of HDI & One lower level of HDI • State with higher level of pop pressure on land & one state lower level of pop pressure in land. • One out migrating state • One in migrating state • One state with higher gender ratio & one with lower gender ratio • Any city with more than 10 million population.
Unit - 8	Ch. 5 to 9	<p>Leading producing states of the following crops: (a) Rice, (b) Wheat, (c) Jowar, (d) Bajra, (e) Maize, (f) Groundnut, (g) Cotton, (h) Jute, (i) Sugarcane, (j) Tea, and (k) Coffee</p> <p>Mines: Iron-ore mines: Mayurbhanj, Kendujhar, Durg, Bailadila, Ratnagiri, Bellary. Manganese mines: Sundergarh, Balaghat, Nagpur, Shimoga. Copper mines: Hazaribagh, Singhbhum, Khetari, Udaipur and Amarkantak. Bauxite mines: Katni, Bilaspur and Koraput. Coal mines: Jharia, Bokaro, Raniganj, Korba, Talcher, Singareni, Neyveli. Oil Refineries: Bhatinda, Panipat, Mathura, Jamnager, Mangalore, Tatipaka, Haldia, Guwahati, Baroni Industries. Iron and Steel Plants: Bhadravati, Bhilai, Bokaro. Durgapur, Rourkela and Jameshedpur. Cotton Textile: Ahmedabad, Surat, Gwalior, Varanasi, Murshidabad, Pune, Nagpur, Solapur and Mysore. Software Technology Parks: Gandhinager, Shrinager, Mohali, Shimla, Delhi, Noida, Kanpur, Indore, Hyderabad, Bhubaneshwar and Major Industrial Regions.</p>
Unit - 9	Ch. 10 - 11	<p>Transport:</p> <ul style="list-style-type: none"> (i) Important tower on north south corridor eastwest corridor & golden quadrilateral. (ii) Headquarters of all railway zones. (iii) Major Sea Ports: Kandla, Mumbai, Bangalore, Chennai, Kolkata, Guwahati, Delhi, Amritsar, Panaji, Kochi, Thiruvananthapuram & Hyderabad
Unit - 10	Ch. 12	NIL