GEOGRAPHY

THEORY CLASS - XI

Periods: 166
One Paper 3 Hours Marks: 70

PART:	UNIT	MARKS
Α.	FUNDAMENTALS OF PHYSICAL GEOGRAPHY	(30 Marks)
	1. Geography as a Discipline.	3
	2. The Earth.	4
	3. Landforms.	6
	4. Climate.	10
	5. Water (Oceans).	5
	6. Life on the Earth.	2
В.	INDIA : PHYSICAL ENVIRONMENT	(30 Marks)
	7. Introduction.	2
	8. Physiography	10
	9. Climate, Vegetation and Soil.	10
	10. Natural Hazards and Disasters: Causes, Consequences and	
	Managements.	8
C.	MANIPUR : PHYSICAL ENVIRONMENT	(10 Marks)
	11. Introduction and Physiography	5
	12. Climate, Vegetation and Soil.	5

PART-A FUNDAMENTALS OF PHYSICAL GEOGRAPHY

(Periods 78)

Unit-1 Geography as a discipline

(Periods 5)

- (a) Geography as an integrating discipline, as a science of spatial attibutes;
- (b) Branches of Geography; importance of Physical Geography.

Unit-2 The Earth

(Periods 10)

(a) Origin and evolution of the earth; Interior of the earth; Earthquakes and Volcanoes; Wegener's Continental Drift Theory and the theory of plate tectonics.

Unit-3 Landforms

(Periods 20)

- (a) Rocks and minerals major types of rocks and their characteristics.
- (b) Landforms and their evolution.

(c) Geomorphic processes - Weathering, mass wasting, erosion and deposition; soils -formation, major types.

Unit-4 Climate

(a) Atmosphere–Compositions and structure; elements of weather and climate.

- (b) Insolation angle of incidence and distribution; heat budget of the earth– heating and cooling of atmosphere (conduction, convection, terrestrial, advection); Temperature–factors controlling temperature; distribution of temperature–horizontal and vertical; inversion of temperature.
- (c) Pressure–Pressure belts; winds–planetary, seasonal and local; air masses and fronts; Cyclones–tropical and extra–tropical.
- (d) Precipitation—evaporation; condensation—dew, frost, fog, mist and clouds; rainfall—types and world distribution.
- (e) World climates—classification (Koeppen); greenhouse effect; Global warming and climatic changes.

Unit-5 Water (Oceans)

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(Periods 8)

(Periods 30)

- (a) Hydrological Cycle;
- (b) Oceans—submarine relief; distribution of temperature and salinity; movements of ocean water—waves, tides and currents.

Unit-6 Life on the Earth.

(Periods 5)

(a) Biosphere–importance of plants and other organisms; biodiversity and conservation; ecosystems, bio-geo chemical and ecological balance.

PART-B INDIA: PHYSICAL ENVIRONMENT

(Periods 68)

Unit-7 Introduction

(Periods 4)

(a) Location-Space relations and India's place in the world.

Unit-8 Physiography

(Periods 22)

- (a) Structure and relief:
- (b) Drainage system; concept of water sheds: the Himalayan and the Peninsular;
- (c) Physiographic divisions

Unit-9 Climate, Veoetation and Soil

(Periods 22)

- (a) Weather and Climate–spatial and temporal distribution of temperature, pressure, winds and rainfall; Indian monsoons; mechanism, onset and withdrawal, variability–spatial and temporal; climatic types.
- (b) Natural vegetation, forests-types and distribution; wildlife; conservation; biosphere reserves;
- (c) Soils-major types (ICAR's classification) and their distribution, soil degradation and conservation.

Unit-10 Natural Hazards and Disasters: Causes, Consequences and Management. (one case study to be introduced for each topic) (Periods 20)

- (a) Flood and drought
- (b) Earthquake and Tsunami
- (c) Cyclone
- (d) Landslide

PART-C MANIPUR : PHYSICAL ENVIRONMENT

(Periods 20)

Unit-11 Introduction and Physiography

(Periods 10)

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- (a) Location, Size and Extension
- (b) Physiography–Relief and Drainage

Unit-12 Climate, Vegetation and Soils

(Periods 10)

- (a) Climate
- (b) Vegetation-types and distributions
- (b) Soils-types and distribution

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One Paper

CURRICULUM AND SYLLABUS for Classes XI & XII

GEOGRAPHY

PRACTICAL CLASS - XI

Periods: 54
3 Hours Marks: 30

PART:		UNIT	Marks 30
D.	1.	Fundamentals of maps.	15 (6+4+5)
	2.	Topographic and Weather maps.	5
	3.	Practical Record Book.	5
	4.	Viva-Voce	5

PART-D PRACTICAL WORK

PERIODS 54

Unit-1 FUNDAMENTALS OF MAPS

Periods 22

- (a) Maps-types; Scales-types; construction of linear scales, measuring distance, finding direction and use of symbols; Periods 8
- (b) Latitude, Longitude and time;

Periods 4

(c) Map projection—typology, construction and properties of Cylindrical Equal-Area, conical with one standard parallel and Mercator's projection. Periods 10

Unit-2 TOPOGRAPHIC AND WEATHER MAPS

Periods 32

- (a) Representation of relief; drawing of contour cross sections of the feature represented by contours—slopes, hills, valleys waterfalls, cliffs; study of topographic maps (RF. 1:50,000 or 1:25,000, survey of India maps): identification of physical features—slopes, hills, valleys, waterfall, cliffs etc. and cultural features—distribution of settlements;
- (b) Aerial photographs and Satellite Images.
 - (i) Aerial Photographs: Types and Geometry-Vertical aerial photographs: photo scale determination.
 - (ii) Satellite Images: Stages in remote sensing data acquisition, platform and sensors and data products, (photographic and digital)
- (c) Use of weather instruments: thermometer, wet and dry bulb thermometer, barometer, windvane, rain gauge.
- (d) Use of weather charts: describing pressure, wind and rainfall distribution.

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PRESCRIBED TEXTBOOKS :

1. Fundamentals of Physical Geography (Textbook in Geography for Class XI) Published by: NCERT, New Delhi.

2. India: Physical Environment (Textbook in Geography for Class XI) Published by: NCERT, New Delhi.

Manipur: Physical Environment
(Textbook in Geography for Class XI)
By: H. Shyamsunder Singh
Published by: Council of Higher Secondary Education, Manipur

4. Practical Work in Geography Part I (Textbook for Class XI)
Published by: NCERT, New Delhi.

REFERENCE BOOKS :

Geography for Class XI
 By: D.R. Khullar
 Published by: Saraswati House Pvt. Ltd., New Delhi - 110002

Geography for Class XI
 By: Yash Pal Singh
 Published by: V.K. (India) Enterprises, New Delhi - 2

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DESIGN QUESTION PAPER/UNIT TEST

Subject: **GEOGRAPHY** (THEORY)

Class : XI

Time: 3 Hours

Full Marks: 70

WEIGHTAGE TO OBJECTIVES : Objectives										
Percentage of Marks 35 45 10 10 100 Marks 25 31 7 7 70										
Marks 25 31 7 7 70										
MEIGHIAGE TO FORM OF QUESTIONS:										
Forms of Questions E SA-II SA-I VSA Total										
No. of Questions 3 10 10 5 28										
Marks Allotted 15 30 20 5 70										
Estimated Time (in Minutes) 60 60 50 10 180										
III. WEIGHTAGE TO CONTENT:										
Units/Sub-units Marks										
1. Geography as a Discipline 3										
2. The Earth 4										
3. Landforms 6										
4. Climate 10 5. Water (Oceans) 5										
6. Life on the Earth 2										
7. India-Introduction 2										
8. Physiography 10										
9. Climate, Vegetation and Soil 10										
10. Natural Hazards and Disasters: Causes, Consequences and Management 8										
11. Manipur – Introduction and Physiography 5										
12. Climate, Vegetation and Soil 5										
Tdal: 70										
IV. SCHEME OF SECTIONS : Nil										
V. SCHEME OF OPTIONS: Internal option only in Essay type Questions										
VI. DIFFICULTY LEVEL:										
Difficult: 15% marks										
Average: 50% marks										
Easy: 35% marks Abburiation: V (Vnoviledge) II (Understanding) A (Application) S (Skill) E (Essay Type)										

Abbreviation: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)

CURRICULUM AND SYLLABUS for Classes XI & XII

DESIGN QUESTION PAPER/UNIT TEST

Subject: GEOGRAPHY (PRACTICAL)

329

Class : XI
Time : 3 Hours
Full Marks : 30

	1									1
I	WEIGHTAGE TO OBJECTIVES:									
	Objectives		K	U			A	S		Total
	Percentage of Marks		7	20			13	60		100
	Mar	·ks	1	3		2		9		15
II.	WE	WEIGHTAGE TO FORM OF QUESTIONS :								
	For	ms of Questions		E	SZ	A-II	SA-I	I V	SA	Total
	No.	of Questions		1		2	1		2	6
	Mar	ks Allotted		5		6	2		2	15
	Esti	mated Time (in Minutes	3)	60		60	50	1	0	180
ш.	WEIGHTAGE TO CONTENT:									
	Units/Sub-units Marks									Marks
	1. Fundamentals of Maps 15=(6+4+5)									5=(6+4+5)
	2. Topographic and weather maps (To be assessed during viva-voce) 5									5
	3. Practical Record Book 5									
	4. Viva-Voce 5									
								Total:		30
IV.	SCF	HEME OF SECTIONS	: Nil							
V.	SCI	HEME OF OPTIONS:	Internal opt	tions may	be]	provid	led in 1	Eassy ty	pe o	question
VI.	DIFFICULTY LEVEL:									
	Difficult: 15% marks									
	Average : 50% marks									
	Easy : 35% marks									

Abbreviation: K (Knowledge), U (Understanding), A (Application),

S (Skill), E (Essay Type), SA (Short Answer Type),

VSA (Very Short Answer Type), O (Objective Type)

GEOGRAPHY

THEORY CLASS - XII

One Paper 3 Hours Periods: 170
Marks: 70

PART:	UNIT	MARKS
Α.	FUNDAMENTALS OF HUMAN GEOGRAPHY	(30 Marks)
	1. Human Geography-Nature and Scope	3
	2. People	5
	3. Human Activities	10
	4. Transport, Communication and Trade	9
	5. Human settlements	3
В.	INDIA: PEOPLE AND ECONOMY	(30 Marks)
	6. People	4
	7. Human settlements	3
	8. Resources and Development	11
	9. Transport, Communication and International Trade	7
	10. Geographical perspective on selected issues and problems	5
C.	MANIPUR : PEOPLE AND ECONOMY	(10 Marks)
	11. People and Human Settlement	4
	12. Resources and Development	4
	13. Transport, Communication and Trade	2

PART-A FUNDAMENTALS OF HUMAN GEOGRAPHY (Periods 75)
Unit-1 Human Geography: Nature and Scope (Periods 4)
Unit-2 People (Periods 13)

- (a) Population of world-distribution, density and growth;
- (b) Population change—spatial patterns and structure; determinants of population change
- (c) Age-Sex ratio, rural-urban composition;
- (d) Human development-concept; selected indicators, international comparisons

Unit-3 Human Activities (Periods 28)

(a) Primary activities—Concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agriculture and allied activities—some examples from selected countries.

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- (b) Secondary activities—Concept; manufacture : agro-processing, house hold, small—scale, large—scale; people engaged in secondary activities—Some examples from selected countries;
- (c) Tertiary activities—Concept; trade, transport and communication; Services, people engaged in tertiary activities some examples from selected countries.
- (d) Quaternary activities—Concept: knowledge based industries; people engaged in quaternary activities—some examples from selected countries.

Unit-4 Transport, Communication and Trade

(Periods 20)

- (a) Land transport-roads, railways-rail network; trans-continential railways;
- (b) Water transport-inland waterways; major Ocean routes;
- (c) Oil and gas pipelines;
- (d) Satellite Communication and Cyber space.
- (e) International trade—Basis and changing patterns; ports as gateways of international trade, role of WTO in International trade.

Unit-5 Human Settlements

(Periods 10)

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

PART-B INDIA: PEOPLE AND ECONOMY

(Periods 75)

Unit-6 People

(Periods 10)

- (a) Population–distribution, density and growth; composition of population: linguistic and religious; rural–urban population change through time-regional variations; Occupation.
- (b) Migration: international, national-causes and consequences;
- (c) Human development-selected indicators and regional patterns;
- (d) Population, environment and development

Unit-7 Human Settlements

(Periods 8)

- (a) Rural settlements-types and distribution;
- (b) Urban settlements-types, distribution and functional classification.

Unit-8 Resources and Development

(Periods 30)

- (a) Land resources—general land use; agricultural land use—major crops; agricultural development and problems, common property resources;
- (b) Water resources—availability and utilization—irrigation, domestic, industrial and other uses; Scarcity of water and conservation methods-rain water harvesting and watershed management (One case study related with participator watershed management to be introduced)

- (c) Mineral and energy resouces—metallic and non-Metallic minerals and their distribution; conventional and non-conventional energy sources;
- (d) Industries—types and distribution; industrial location and clustering; changing pattern of selected industries—iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries, impact of liberalization, privatization and globalization on industrial location;
- (e) Planning in India—target area planning (case study); idea of sustainable development (case study).

Unit-9 Transport, Communication and International Trade

(Periods 15)

- (a) Transport and communication–roads, railways, waterways and airways; oil and gas pipelines; national electric grids; Communication networkings–radio, television, satellite and internet;
- (b) 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 (One case study to be introduced for each topic)

- (a) Environmental pollution; Urban-waste disposal;
- (b) Urbanisation; rural-urban migration; problem of slums;
- (c) Land Degradation.

PART-C MANIPUR: PEOPLE AND ECONOMY

(Periods 20)

Unit-11 People and Human Settlement

(Periods 8)

- (a) Population: distribution, density and growth; composition—linguistic and religious; structure—age—sex; participation—workers and non—workers; migration—international, national—causes and consequences.
- (b) Human settlements: types—rural & urban, distribution pattern and urban functional classification.

Unit-12 Resources and Development

(Periods 7)

- (a) Forest products, conservation of forests for ecological balance;
- (b) Land resources, water resources, mineral and energy resources;
- (c) Industries;

Unit-13 Transport, Communication and Trade:

(Periods 5)

- (a) Transport and communication-roads, railways, waterways and airways; Communication networking-radio, television, satellite and internet.
- (b) International trade; Indo-Myanmar border trade.

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PRESCRIBED TEXTBOOKS :

1. Fundamentals of Human Geography (Textbook in Geography for Class XII) Published by: NCERT, New Delhi.

2. India: People and Economy
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Published by: NCERT, New Delhi.

Manipur : People and Economy
 (Textbook in Geography for Class XII)
 By : H. Shyamsunder Singh
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REFERENCE BOOKS :

1. Geography for Class XII
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Published by: Saraswati House Pvt. Ltd., New Delhi - 110002

Geography for Class XII
 By: Yash Pal Singh
 Published by: V.K. (India) Enterprises, New Delhi - 2

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GEOGRAPHY

PRACTICAL CLASS - XII

Periods: 166
One Paper 3 Hours Marks: 30

PART:		UNIT	Marks 30
D.	1.	Processing of Data and Thematic Mapping	15
	2.	Field Study or spatial Information Technology	5
	3.	Practical Record Book.	5
	4.	Viva-Voce	5

PART-D PRACTICALWORK

(Periods 50)

Unit-1 Processing of Data and Thematic Mapping

(Periods 25)

- (a) Sources of data;
- (b) Tabulating and processing data; calculation of averages, measures of central tendency, deviation and rank correlation;
- (c) Representation of data-construction of diagrams : bars, circles and flowchart, thematic maps.
- (d) Use of computers in data processing and mapping.

Unit-2 Field Study or Spatial Information Technology

(Periods 25)

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, drought and flood impacts (any one topic of local concern may be taken up for the study); observation and questionnaire survery may be adopted for the data collection; collected data may be tabulated and analysed with diagrams and maps.

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.

DESIGN QUESTION PAPER/UNIT TEST

Subject: GEOGRAPHY (THEORY)

Class: XII
Time: 3 Hours
Full Marks: 70

I WEIGHTAGE TO O	WEIGHTAGE TO OBJECTIVES :										
Objectives	K	U		A	S	Total					
Percentage of Marks	35	45		10	10	100					
Marks	25	31	31 7 7								
II. WEIGHTAGE TO F	ORM OF QUES	TIONS :		I							
Forms of Questions		E	SA-II	SA-1	I VSA	Total					
No. of Questions	,				5	28					
Marks Allotted					5	70					
Estimated Time (in Mi	nutes)	60	60	50	10	180					
III. WEIGHTAGE TO C	WEIGHTAGE TO CONTENT:										
	Units/Su					Marks					
	Human Geography-Nature and Scope										
1	2. People 5										
	3. Human Activities 10										
	4. Transport, Communication and Trade 9										
	5. Human Settlements 3										
	6. India-People 4										
	7.Human Settlements38.Resources and Development11										
8. Resources and Do 9. Transport, Comm		tamatiana	1 Trodo			11 7					
1 1 1				hloma		5					
10. Geographical Per 11. Manipur-People			es and Fic	ouems		4					
12. Resources and De		CITICIII				4					
13. Transport, Comm	-	ade				2					
13. Transport, Comm	idinodi on did 11	·uuc			Total:	70					
IV. SCHEME OF SECTION	NS : Nil					1					
V. SCHEME OF OPTIO		ptions onl	ly in Essay	у Туре	Questions						
VI. DIFFICULTY LEVE		_	<u>-</u>		-						
Di	ffialt: 15%	marks									
A	Average: 50% marks										
	Easy : 35%	marks									

Abbreviation: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)

DESIGN QUESTION PAPER/UNIT TEST

Subject: GEOGRAPHY (PRACTICAL)

Class: XII
Time: 3 Hours
Full Marks: 30

I	WEIGHTAGE TO OBJECTIVES :										
	Objectives K		K	U		А		S		Total	Ĺ
	Percentage of Marks		7	20			13		60	100	
	Mar	·ks	1	3			2		9	15	
II.	WEIGHTAGE OF FORM OF QUESTIONS :										
	For	ms of Questions		E	SZ	A—II	SA-	I	VSA	A Total	L
	No.	of Questions		1		2	1		2	6	
	Mar	ks Allotted	5		6	2		2	15		
	Esti	mated Time (in Minutes)	60		60	50		10	180	
ш.	WEIGHTAGE TO CONTENT:										
	Units/Sub-units Marks										
	1. Processing of Data and Thematic Mapping 15										
	2. Field study or Spatial Information Technology 5										
	3. Practical Record Book 5										
	4. Viva-Voce 5										
								Tæ	al:	30	
IV.	SCH	HEME OF SECTIONS	: Nil								
V.	SCI	HEME OF OPTIONS:	Internal option	ons may be	e pro	vided	in Essa	у Туј	pe Qu	estions	
VI.	DIFFICULTY LEVEL:										
	Difficult : 15% marks										
	Average: 50% marks										
	Easy : 35% marks										

Abbreviation: K (Knowledge), U (Understanding), A (Application),

S (Skill), E (Essay Type), SA (Short Answer Type),

VSA (Very Short Answer Type), O (Objective Type)