

**DR. BABASAHEB AMBEDKAR  
MARATHWADA UNIVERSITY,  
AURANGABAD**



**Revised Syllabus of**

**B.A. I<sup>st</sup> Year**

**Geography**

**Semester-I & II**

**(with Credit System)**

**[Effective from 2012-13 onwards]**

**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**  
**GEOGRAPHY**

Curriculum Structure and Scheme of Evaluation for B.A.  
With effective from 2012-13

Annual Exam									
Sr. No.	Course Code	Name of Subject	Scheme of Teaching (Periods / Week)				Scheme of Evaluation (Marks)		
			L	P	Total Credits	Theory	Theory	Practical / Viva-voce	Total Marks
1	Geo. 101	Elements of Physical Geography	4	--	10	4	75	--	75
2	Geo. 102	Human Geography	4	--	10	4	75	--	75
<b>(A) Total</b>			<b>8</b>	<b>--</b>	<b>20</b>	<b>08</b>	<b>150</b>	<b>--</b>	<b>150</b>

Annual Practical

Sr. No.	Course Code	Name of the Subject	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
			L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
3	Geo. 103	Practical-Paper-3	-	4	4	-	-	50	50
-	<b>Total</b>		-	4	4	-	-	50	50

\*PER WEEK THEORY PERIOD - **08** & PRACTICAL PERIOD - **04**

**DR. BABASAHEB AMBEDKAR MARATHWADA  
UNIVERSITY, AURANGABAD  
STRUCTURE OF THE B.A. I<sup>ST</sup> YEAR SYLLABUS  
GEOGRAPHY PAPERS**

<b>Paper No.</b>	<b>Title of the Paper</b>	<b>Total Marks</b>	<b>No. of Periods Week</b>
Paper – I	Elements of Physical Geography	75	04
Paper – II	Human Geography	75	04

❖ Total Periods per week = 08  
One Practical having 04 periods

**Annual Practical )**

<b>Paper No.</b>	<b>Title of the Paper</b>	<b>Total Marks</b>	<b>No. of Periods Week</b>
Practical – III Paper	Practical Geography	50	04

❖ Total Periods per week per batch 04  
One Practical having 04 periods

**Chairman  
BOS in Geography**

**B.A. I - year (I - semester)**  
**Paper - I**  
**"Elements of Physical Geography"**

**Mark : 30**

	<b>Unit I</b>	Introduction of Physical Geography : - Meaning, Nature and Scope, Element, Branches of Physical Geography	<b>Periods - 10</b>
	<b>Unit II</b>	Lithospheres :	<b>Periods - 20</b>
		Interior of the Earth, Wegher's Continental Drift Theory, Isostacy and plate Tectonic theories.	
	<b>Unit III</b>	Earth Movements : Vertical and Horizontal, Process of Folding causes and effect, process of Faulting, Causes and effect. Volcanoes and Earthquakes.	<b>Periods - 20</b>
	<b>Unit IV</b>	Rocks: Classification of rocks on the basis of Origin. Properties of different rocks.	<b>Periods - 10</b>

**B.A. I, – I- Semester  
Paper- II  
Human Geography**

**Mark : 30**

	<b>Unit I</b>	Introduction Definition, Nature and Scope of Human Geography Braches of Human Geography.	<b>Periods – 10</b>
	<b>Unit II</b>	Man and Environment relationship Types of Environment, Concept of Determinism and Possibilism, Stop and Go deterministic Approach.	<b>Periods – 20</b>
	<b>Unit III</b>	Physical and Social Profile of Racial groups, Ethnic groups, Tribal groups in World and India, Eskimo, Bushmen, Masai, Gonds, Gujars.	<b>Periods – 20</b>
	<b>Unit III</b>	Physical and Social Profile of Racial groups, Ethnic groups, Tribal groups in World and India, Eskimo, Bushmen, Masai, Gonds, Gujars.	<b>Periods – 20</b>
	<b>Unit IV</b>	Human Settlement :- Types, Forms Patterns and Functional classification	<b>Periods – 20</b>

**B.A. I Year II - Semester  
Paper – III  
"Geography of Landforms"**

**Mark : 30**

	<b>Unit I</b>	Concept of landforms, Evolution and types of landforms, Concept of Cycle of Erosion.	<b>Period 10</b>
	<b>Unit II</b>	Weathering :- Types and classification of Weathering - Mechanical, Chemical and biological. Soil formation.	<b>Period 20</b>
	<b>Unit III</b>	Geomorphic Agents and Processes. Erosion, Transportation, Deposition, Landforms produced by River, Winds and Sea waves.	<b>Period 20</b>
	<b>Unit IV</b>	Land form produced by Glacier and Underground water. Applied Geomorphology - Geomorphology & Settlement, Geomorphology & Landuse, Geomorphology & Resources.	<b>Period 10</b>

**B.A. I Year- II- Semester**  
**Paper – IV**  
**"Regional Geography of Maharashtra"**

**Mark : 30**

	<b>Unit I</b>	Position and Personality : Location, Size and Shape, Relief and Physical Division of Maharashtra.	<b>Period</b> <b>10</b>
	<b>Unit II</b>	Climate, Drainage, Soil and Natural Vegetation of Maharashtra.	<b>Period</b> <b>20</b>
	<b>Unit III</b>	Agriculture :- Cropping Pattern Major Crops :- Jowar, Wheat, Rice, Cotton, Sugarcane, Oilseeds & Pulses. Geographical Condition, Production & distribution of these crops.	<b>Period</b> <b>20</b>
	<b>Unit IV</b>	Industries : - Cotton and textile Industries, Sugar Industries. Transportation :- Road and Railway transport.	<b>Period</b> <b>10</b>

**B.A. I & II Semester  
Annual Practical**

**Total Mark : 80**

	<b>Unit I</b>	<b>A) Nature and Scope of Cartography.</b> Scale- Meaning, Methods of Representing Scale. Verbal Scale, Numerical Scale and Linear Scale	<b>Periods-12</b>
		<b>B) Types of Linear Scale</b> i) Simple Linear Scale. ii) Comparative Scale. iii) Diagonal Scale. iv) Time and Distance Scale v) Space Scale	<b>Periods-20</b>
	<b>Unit II</b>	<b>A) Definitions of Maps, Brief History of Maps, Classification of Maps,</b>	<b>Periods-10</b>
		<b>B) Enlargement and Reduction of Map by Square Method</b>	<b>Periods-10</b>
	<b>Unit III</b>	<b>A) Methods of Showing Relief</b> i) Hachure's, ii) Spot Height iii) Bench Mark iv) Hill Shading v) Layer Tint vi) Form Lines vii) Contours	<b>Periods-10</b>
		<b>B) Representation of slopes with the help of contour lines by applying cross section method of</b> i) Even Slope ii) Uneven Slope iii) Gentle Slope iv) Concave Slope vi) Convex Slope vii) Terraced Slope	<b>Periods-12</b>
	<b>Unit - V</b>	Representation of Landforms by Cross Section Method I. Conical Hill II. Ridge III. Plateau IV. Cliff V. Waterfall VI. 'U' Shaped valley VII. 'V' Shaped Valley VIII. Pass IX. Spur	<b>Periods-20</b>
		<b>A) Conventional Signs and Symbols of SOI Maps</b>	<b>Periods-06</b>
	<b>Unit - VI</b>	<b>B) Study of any three Indian topographical Maps Under the following Heads (Hilly, Plateau and Plain Area each one)</b> i) Introduction	<b>Periods-20</b>



		ii) Relief iii) Drainage iv) Settlement v) Transportation & Communication	
	<b>Unit – VII</b>	Certified Journal and Viva Voce	

**DR. BABASAHEB AMBEDKAR  
MARATHWADA UNIVERSITY,  
AURANGABAD.**



**Revised Syllabus of**

**B.A. II - Year**

**Geography**

**Semester-III & IV**

**(with Credit & Semester Pattern)**

**[Effective from 2012-13 onwards]**

**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**GEOGRAPHY**

**Curriculum Structure and Scheme of Evaluation for B.A.II  
With effective from 2012-13**

SEMISTER III									
Sr. No.	Course Code	Name of Subject	Scheme of Teaching (Periods / Week )				Scheme of Evaluation (Marks)		
			L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	Geo. 106	Climatology	4	-	4	4	30	--	30
2	Geo. 107	Population Geography	4	-	4	4	30	--	30
<b>(A) Total of Semester – III</b>			<b>8</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>60</b>	<b>--</b>	<b>60</b>

**SEMISTER - IV**

Sr. No.	Course Code	Name of the Subject	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
			L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	Geo. 108	Oceanography	4	--	4	4	30	--	30
2	Geo. 109	Settlement Geography	4	--	4	4	30	--	30
<b>(B) Total of Semester – IV</b>			<b>8</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>60</b>	<b>--</b>	<b>60</b>

Annual Practical (Semester III & IV)

Sr. No.	Course Code	Name of the Subject	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
			L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
3	Geo. 110	Practical-Paper-X	-	4	4	4	-	80	80
<b>(C) Total of Semester – III &amp; IV</b>			<b>-</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>80</b>	<b>80</b>

\*PER WEEK THEORY PERIOD - **08** & PRACTICAL PERIOD - **04**

**DR. BABASAHEB AMBEDKAR MARATHWADA  
UNIVERSITY, AURANGABAD  
STRUCTURE OF THE B.A. SECOND YEAR  
SYLLABUS GEOGRAPHY PAPERS  
(SEMESTER PATTERN)  
Semester - III**

<b>Paper No.</b>	<b>Title of the Paper</b>	<b>Total Marks</b>	<b>No. of Periods Week</b>
Paper – VI	Climatology	30	04
Paper – VII	Population Geography	30	04

❖ Total Periods per week = 12  
One Practical having 04 periods

**Semester - IV**

<b>Paper No.</b>	<b>Title of the Paper</b>	<b>Total Marks</b>	<b>No. of Periods Week</b>
Paper – VIII	Oceanography	30	04
Paper – IX	Settlement Geography	30	04

Total Periods per week = 12  
One Practical having 04 periods

**Annual Practical (Semester III & IV)**

<b>Paper No.</b>	<b>Title of the Paper</b>	<b>Total Marks</b>	<b>No. of Periods Week</b>
Practical – X Paper	Practical Geography	80	04

\*PER WEEK THEORY PERIOD - **08** & PRACTICAL PERIOD - **04**

**Chairman  
BOS in Geograph**

**B.A. II Year - Semester - III**  
**Paper - VI**  
**Climatology**

**Mark -30**

	<b>Unit I</b>	<b>Weather and Climate</b> – Definition, nature and scope of Climatology, Significance of Climatology, Composition and structures of atmosphere, weather and climate.	<b>Periods-10</b>
	<b>Unit II</b>	<b>Insolation and Temperature</b> – Definition of Insolation and Temperature, Heat Budget of the Earth, Factors affecting the distribution of Solar energy, Distribution of Temperature – Vertical and Horizontal, Range of Temperature.	<b>Periods – 20</b>
	<b>Unit III</b>	<b>Atmospheric Pressure and Winds-</b> Evaporation and Condensation, Hydrological cycle, Types of precipitation, World pattern of rainfall. regional and seasonal distribution, Air Masses and Fronts :Concept, Classification and properties. Atmospheric disturbance : Tropical and Temperate cyclones: thunderstorms and tornadoes.	<b>Periods-20</b>
	<b>Unit IV</b>	<b>Role of Climate in human life:-</b> Atmosphere pollution and global warming, general causes, consequences and measures of control.	<b>Periods-10</b>

**B.A. II Year - Semester – III**  
**Paper- VII**  
**Population Geography**

**Mark : 30**

	<b>Unit I</b>	<b>Population Geography</b> – Definition, nature, scope and Significance, Sources of population data.	<b>Periods-10</b>
	<b>Unit II</b>	<b>Distribution of population</b> - Factor affecting on population Distribution& Density. population Distribution pattern World & India . Density, moderately population region of world	<b>Periods – 20</b>
	<b>Unit III</b>	<b>Composition of Population</b> – Age and sex composition, rural- urban composition, Economic composition; determinates, World regional patterns; Composition, of population in India.	<b>Periods-20</b>
	<b>Unit IV</b>	<b>Migration</b> – Meaning, classification and their determinates and consequences of migration, Migration in India.	<b>Periods-10</b>

**B.A. II Year - Semester – IV**  
**Paper- VIII**  
**Oceanography**

**Mark : 30**

	<b>Unit I</b>	<b>Introduction of Oceanography –</b> Definition, Nature and Scope, Surface configuration of Ocean floors.	<b>Period 10</b>
	<b>Unit II</b>	<b>Submarine Relief-</b> General idea of submarine relief- Continental shelf, Continental slope, Abyssal plains, Oceanic trenches and deeps, Hypsographic Curve, Relief of Atlantic, Pacific and Indian Oceans.	<b>Period 20</b>
	<b>Unit III</b>	<b>Salinity and Temperature of Oceanic Water-</b> Salinity of ocean water, its meaning, causes of salinity, Factors affecting on salinity of oceanic water, Distribution of salinity in the World. Factors affecting the temperature of ocean water, Distribution of temperature in ocean water.	<b>Period 20</b>
	<b>Unit IV</b>	<b>Marine Deposits and Coral Reefs-</b> Ocean deposits- Shallow sea deposits, Deep sea deposits, Types of Corals. Ocean as a storehouse of resources for the future.	<b>Period 10</b>

**B.A. II Year - Semester - IV**  
**Paper - IX**  
**Settlement Geography**

**Mark : 30**

	<b>Unit I</b>	<b>Settlement Geography -</b> Nature, scope and content. Definition of rural and urban Settlements, merits and limitations.	<b>Period -10</b>
	<b>Unit II</b>	<b>Settlement site and structure -</b> Internal Morphology, external forms, field patterns, Functions and house types.	<b>Period -20</b>
	<b>Unit III</b>	<b>Spatial organization -</b> Size, spacing and hierarchy of settlements; emergence and characteristics of urban settlement.	<b>Period -20</b>
	<b>Unit IV</b>	Silent features of human settlements in India.	<b>Period -10</b>



**ANNUAL PRACTICAL**  
**(B.A. II Year III & IV Semester)**  
**Paper- Practical Geography**  
**Paper No. – X**

**Total Mark : 80**

	<b>Unit I</b>	Mechanism and Uses of Weather Instruments I. Thermometer II. Maximum and Minimum Thermometer III. Dry and Wet Bulb thermometer IV. Aneroid Barometer V. Fortin's Barometer VI. Wind Vane VII. Cup Anemometer VIII. Rain Gauge IX. Hygrometer	<b>Period -20</b>
	<b>Unit- II</b>	<b>A)</b> Conventional Signs and Symbols Used in IDWR	<b>Period -05</b>
		<b>B)</b> Interpretation of IDWR of Winter Season, Summer Season, Rainy Season (At least one Map of each Season) Attach the Copy of Studied IDWR.	<b>Period -15</b>
	<b>Unit III</b>	<b>A)</b> Cartographic Techniques, Definition- Nature & Scope, Importance of Cartography	<b>Period -05</b>
		<b>B)</b> Representation of Climatic Statistical data by Using Following Cartographic Techniques. i) Climograph ii) Hythergraph iii) Star Diagram iv) Wind Rose v) Ergograph vi) Isobars vii) Isotherms viii) Isohyets	<b>Period -20</b>
	<b>Unit IV</b>	Representation of Statistical Data by Using following Methods i) Line and Bar graph ii) Polygraph iii) Divided Circle iv) Rectangle Divided v) Dot Method vi) Choropleth Map vii) Proportional Circle (Located) viii) Proportional Square (Located) ix) Proportional Cube ( Located)	<b>Period -25</b>

		x) Proportional Sphere (Located)	
	<b>Unit V</b>	<b>A)</b> Latitude, Longitude, Direction, Area and Great Circle	Periods-05
		<b>B)</b> Map Projection- Definition and Classification of Map Projection	Periods-05
		<b>C)</b> Construction, Properties, Uses & Choice of the following Map Projection - i) Zenithal Polar Gnomonic Projection ii) Zenithal Equal Area Projection iii) Simple Conical Projection iv) Conical Projection with two standard parallel v) Simple Cylindrical Projection vi) Cylindrical Equal Area Projection	Periods-20
	<b>Unit VI</b>	Certified Journal and Viva-Voce	

**DR. BABASAHEB AMBEDKAR  
MARATHWADA UNIVERSITY,  
AURANGABAD**



**Revised Syllabus of**

**B.A. III Year**

**Geography**

**Semester-V & VI**

**[Effective from 2012-13 onwards]**

**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad****GEOGRAPHY**

Curriculum Structure and Scheme of Evaluation for B.A. III

With effective from 2012-13

**SEMISTER V – Subsidiary**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical / Viva-voce	Total Marks
1	GEO 111	Geo. XI	Physical Geo. Of India	4	-	4	4	30	--	30
2	GEO 112	Geo. XII	Geography of Environment	4	-	4	4	30	--	30
(A) Total of Semester-V				8	-	8	8	60	-	60

**SEMISTER V – MAIN**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical / Viva-voce	Total Marks
1	GEO 113	Geo. XIII	Industrial geography of Maharashtra	4	-	4	4	30	--	30
2	GEO 114	Geo. XIV	Geography of resources	4	-	4	4	30	--	30
(B) Total of Semester – V Main				8	-	8	8	60	--	60

- Total period per paper , per week -4
- One practical having 4 period
- Practical batch – one batch 20 student

**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad**

**GEOGRAPHY**

Curriculum Structure and Scheme of Evaluation for B.A. – III

With effective from 2012-13

**SEMISTER VI – Subsidiary**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 115	Geo. XV	Agricultural geography of India	4	--	4	4	30	--	30
2	GEO 116	Geo. XVI	Geography of natural calamity	4	--	4	4	30	--	30
Total Semester VI (Subsidiary)				8	--	8	8	60	--	60

**Annual Practical - SEMISTER V & VI – Subsidiary**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 117	Geo. Prct. XVII	Practical-XVII	-	4	4	--	-	80	80

**\*PER WEEK THEORY PERIOD - 08 & PRACTICAL PERIOD - 04**

**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad**

**GEOGRAPHY**

Curriculum Structure and Scheme of Evaluation for B.A. III

With effective from 2012-13

**SEMESTER VI – MAIN**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical / Viva-voce	Total Marks
1	GEO 118	Geo. XVIII	Urban geography	4	--	4	4	30	--	30
2	GEO 119	Geo. XIX	Bio-geography	4	--	4	4	30	--	30
Total Semester VI (Main)				8	-	8	8	60	--	60

**Annual Practical - SEMISTER V & VI – MAIN**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical / Viva-voce	Total Marks
4	GEO 120	Geo. Prc. XX	Practical-	-	4	4	--	-	80	80

\*PER WEEK THEORY PERIOD - **08** & PRACTICAL PERIOD - **04**

- Total period per paper , per week -4
- One practical having 4 period
- Practical batch – one batch 20 students

**B.A. III Year**  
**Semester-V- Subsidiary**  
**Paper No. XI**  
**Physical Geography of India**

**Mark : 30**

	<b>Unit I</b>	India in the context of south east and south Asia. India: a land of diversities, unity within diversities, Shape, size, physical landscape of India	<b>15</b>
	<b>Unit II</b>	Drainage systems of India their functional significance Climate: Regional and seasonal variations of climate. The monsoons.	<b>15</b>
	<b>Unit III</b>	Soil types of India their distribution and characteristics.	<b>15</b>
	<b>Unit IV</b>	Natural Vegetation: Forest types and their distribution. In India.	<b>15</b>

**B.A. III Year**  
**Semester-V- Subsidiary**  
**Paper No.XII**

**Mark : 30**

**Geography of Environment**

	<b>Unit I</b>	Definition of environment science, nature and scope of environment, Types of environment.	<b>15</b>
	<b>Unit II</b>	Ecology, Abiotic or physical factors, Temperature, soil, water, atmosphere, Biotic or Non Physical factors, organism, population and Biotic community.	<b>15</b>
	<b>Unit III</b>	Ecosystem coordinial principles of Ecosystem. Structure of Ecosystem (Producer, Consumer, Decomposer), Nutrient Cycling (Carbon cycle, oxygen cycle, Nitrogen cycle), Function of Ecosystem, Energy flow, food chain, food web, Ecological pyramid. Types of Ecosystem (Natural Ecosystem and Cultural Ecosystem)	<b>15</b>
	<b>Unit IV</b>	Problems of Ecosystem and environment Global warming, food security, Deforestation, Plastic bags, Acid rainfall.	<b>15</b>



**B.A. III Year**  
**Semester-V- Main**  
**Paper No.XIII**  
**Industrial Geography of Maharashtra**

**Mark : 30**

	<b>Unit I</b>	Nature, scope and recent developments of Industry In Maharashtra. Elements and factors of localization of Industries.	<b>15</b>
	<b>Unit II</b>	Distribution and spatial pattern of Industries in Maharashtra. 1. Cotton and Textile Industries 2. Petro chemical Industries 3. Sugar cane Industries 4. Automobile Industries	<b>15</b>
	<b>Unit III</b>	Industrial belt in Maharashtra and their Characteristics, Impact of industries on economic development of Maharashtra.	<b>15</b>
	<b>Unit IV</b>	Role of globalization Industrial sector, shifting of industries and its impact on the urban fringe, Changing industrial policy in Maharashtra.	<b>15</b>

**B.A. III Year Geography  
Semester-V- Main  
Paper No.XIV  
Geography of Resources**

**Mark : 30**

	<b>Unit I</b>	Meaning, Nature and Scope of Resource Geography, Significance of natural resources.	<b>15</b>
	<b>Unit II</b>	Classification of Resources- Renewable and Non-renewable Resources: Biotic: forest Wildlife, livestock, fisheries agricultural crops abiotic-land, water and minerals.	<b>15</b>
	<b>Unit III</b>	Distribution and utilization of water, mineral and Energy resources.	<b>15</b>
	<b>Unit IV</b>	Conservation of major resources-Soil, Water, forest and minerals.	<b>15</b>

**B.A. IIIrd Year Geography**  
**Semester-VI- Subsidiary**  
**Paper No. XIV**  
**Agricultural Geography of India**

**Mark : 30**

	<b>Unit I</b>	Nature, scope significance and development of Agricultural geography. Origin and dispersal of Agricultural in India.	<b>15</b>
	<b>Unit II</b>	Agriculture in India: Agricultural landuse, cropping Pattern, Regional pattern of productivity in India. Agricultural policy in India	<b>15</b>
	<b>Unit III</b>	Distribution and production of major crops in India 1) Rice . 2) Wheat 3) Jowar 4) Cotton 5) Sugarcane 6) Tea	<b>15</b>
	<b>Unit IV</b>	Green Revolution in India.	<b>15</b>

**B.A. III Year**  
**Semester-VI- Subsidiary**  
**Paper No. XV**  
**Geography of Natural Calamities**

**Mark : 30**

	<b>Unit I</b>	Definition Nature and scope of Natural Calamities	<b>15</b>
	<b>Unit II</b>	Earthquake, and volcano, causes and effect of Earthquake and volcano, world distribution of earthquake and volcano.	<b>15</b>
	<b>Unit III</b>	drought and floods 1. Meteorological drought 2. Hydrological drought. 3. Agricultural drought. causes and effects of drought, drought-prone-areas Flood cause and effects Biological Hazards	<b>15</b>
	<b>Unit IV</b>	Global warming and green House effects, Ozone deflation, Pollution Types, (Air, Water, and Soil)	<b>15</b>

**B.A. III Year  
Semester-VI- Main  
Paper No. XVIII  
Urban Geography**

**Mark : 30**

	<b>Unit I</b>	Meaning and Scope of Urban Geography Origin and Evolution of towns Classification of Towns Functional Classification of Towns	<b>15</b>
	<b>Unit II</b>	Urban Region of India North Western Part Central Part North Eastern Part Southern India	<b>15</b>
	<b>Unit III</b>	Problems of Urban Development Population Explosion Laks of Amenities (Water, Transport) Land use management Slum Areas Housing Problems Unemployment Environmental Problems	<b>15</b>
	<b>Unit IV</b>	Theories of Urban Growth 1. Concentric Zone Theory 2. Sector Theory 3. Central Place Theory	<b>15</b>

**B.A.III Year Semester-VI –Main  
Paper No. XVII  
Biogeography**

**Mark :30**

<b>Nov.</b>	<b>Unit I</b>	Nature, Scope and significance of Biogeography.	<b>15</b>
<b>Dis.</b>	<b>Unit II</b>	Environment, Habitat and plant animal association, Biome types. Darwin's theory of Evolution.	<b>15</b>
<b>Jan.</b>	<b>Unit III</b>	Elements of Plant geography, distribution of forests, successions in newly Formed landforms. Examples from flood plains and Glacial fore fields.	<b>15</b>
<b>Feb.</b>	<b>Unit IV</b>	Zoo-geography and its Environmental Relationship Ecosystem forms and function. National forest Policy of India	<b>15</b>

**ANNUAL PRACTICAL FOR SUBSIDIARY**

**(V & VI Semester)**

**Geography Practical**

**Paper - XVI (SUB)**

**Marks – 80**

<b>Unit 1</b>	<b>Measures of Central Tendency -</b> I Mean ii Median iii Mode	<b>30</b>	
<b>Unit 2</b>	<b>Measures of Deviation -</b> Deviation i. Mean ii. Quartile Deviation iii Standard Deviation	<b>30</b>	
<b>Unit 3</b>	<b>Correlation -</b> i) Spearman's Method Karl Pearson's Method	<b>30</b>	
<b>Unit 4</b>	<b>i. Regression equation by Least Square Method</b>  ii. Regression Line 'X' on 'Y' iii Regression Line 'Y' on 'X' iv Chi-Square Test	<b>30</b>	
<b>Unit 5</b>	<b>Participation in Geographical Excursion and Report Writing</b>		
<b>Unit 6</b>	<b>Certified Journal and Viva – voce.</b>		

**B.A. III Year  
Geography Practical  
Paper – XVIII (MAIN)**

**Marks – 80**

	<b>Unit 1</b>	<b>A) Instrumental Survey</b> <b>1) Chain and Tape Survey</b> <b>2) Plane Table Survey</b> <b>3) Prismatic Compass Survey</b> <b>B) Field survey using Plane table and prismatic compass.</b> <b>1) Open Traverse Method</b> <b>2) Close Traverse Method</b>	<b>30</b>
	<b>Unit 2</b>	<b>Representation of Bearing -</b> i) Whole Circle Bearing ii) Reduced Bearing iii) FB, BB of WCB iv) FB, BB of RB v) Conversion of Bearing - a) WCB into RB <b>b) RB into WCB</b>	<b>30</b>
	<b>Unit 2</b>	<b>B) Correction of Bearing</b> ii. Closing Error By Bowditch Method iii Determination of the Height with the Help of Abney Level	<b>30</b>
	<b>Unit 3</b>	<b>Certified Journal and Viva - Voce</b>	