# <u>COURSE OUTCOMES OF</u> <u>GEOGRAPHY (HONOURS) GENERAL</u> (B.A. &B.SC) UNDER CBCS

Geography is a systematic study of the Earth, its features, and phenomena that take place on it. For something to fall into the domain of geography, it generally needs some sort of spatial component that can be placed on a map, such as coordinates, place names, or addresses. This has led to geography being associated with cartography and place names. Geographers study the Earth's spatial and temporal distribution of phenomena, processes, and features as well as the interaction of humans and their environment. Because space and place affect a variety of topics, such as economics, health, climate, plants, and animals, geography is highly interdisciplinary.

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it. They also examine how human culture interacts with the nature of the second sralenvironmentandthewaythoselocationsandplacescanhaveanimpactonpeople. Geography seeks to understand where things are found, why they are there, and how they develop and over time. The study of the diverse environments, change places, and spaces of Earth's surface and their interactions. It seeks to answer the questions of why things are as they are where they are. The modern academic discipline of geography is rooted in ancient practice, concerned with the characteristics of places, in particular their natural environments and peoples, as well as the relations between the two.

SEMESTER	PAPERS	UNIT	COURSE	OUTCOMES
SEMESTER I	GEO-A-	Geotectonics and	CO1	CO1.1 Understand the earth's
	CC-I-01	Geomorphology		tectonic and structural changes and
	(TH &			its resultant landforms and theories.
	PR)			CO1.2. Knowledge about types of
				folds and faults, fluvial, glacial,
				coastal processes and associated
				landforms.
				CO1.3. Idea about the application

#### Course outcome (CO): Geography

	1			
				of clinometers.
				CO1.4. Identification of different
				types of rock and minerals.
	GEO-A-	Cartographic	CO2	CO2.1 Understand the concept of
	CC-I-02	Techniques		maps and its components. Introduce
	(TH &			the Survey of India topographical
	PR)			map.
				CO2.2. Significance of UTM
				projection and geoid spheroid
				concept.
				CO2.3. Draw difference type of
				scales and different type of map
				projections. CO2.4. Develop the
				idea about different type of
				thematic mapping techniques.
SEMESTER	GEO-A-	Human	CO3	CO3.1 Gain knowledge about space
II	CC-2-03	Geography		and society. Concept of race and
	(TH &			ethnicity.
	PR)			CO3.2. Learn about the approaches
				of human geography.
				CO3.3. Build an idea of population
				growth and its distribution. Also the
				rural and urban settlement patterns
				and house type.
				CO3.4. Idea of thematic mapping
				related to population with
				settlement pattern and concept and
				draw population pyramids.
	GEO-A-	Thematic	CO4	CO4.1. Idea about diagrammatic
	CC-2-04	Mapping And		data representation based on
	(TH &	Surveying		thematic mapping.
	PR)			CO4.2. Preparation and
	/			interpretation of geological map.
				landuse landcover map, socio
				economic map.
				CO4.3. Basic idea of principal
				national agencies producing
				thematic mapping in India like
				memane mapping in mula like

				NATMO CSI NDSSI UD NILO
				NATMO, GSI, NBSSLUP, NHO,
				NRSC/Bhuvan etc.
				CO4.4. Interactions of different
				types of surveying instruments like
				Dumpy level, Prismatic Compass
				and Theodolite with environment.
SEMESTER	GEO-A-	Climatology	CO5	CO5.1. Learn about the elements of
III	CC-3-05			the atmosphere and its layering.
	(TH &			Overview of climatic change and
	PR)			monsoon mechanism with reference
				to India.
				CO5.2. Develop the concept about
				the atmospheric phenomena and
				climatic classification. Learn the
				formation of air mass, fronts, jet
				streams, cyclones and
				thunderstorms.
				CO5.3. Learn to use of various
				meteorological instruments like
				six`s thermometer, barometer and
				hygrometer.
				CO5.4. Gain knowledge about the
				Indian daily weather report,
				identification and interpretation.
	GEO-A-	Hydrology and	CO6	CO6.1. Study the global cycle, run
	CC-3-06	Oceanography		off hydrological off ground water
	(TH &			movement, water harvesting and
	PR)			watershed management.
				CO6.2. Learn about the ocean water
				circulation its physical and
				chemical properties. Different
				elements of ocean water, coral
				reefs, marine resources and sea
				level chance.
				CO6.3.Learn to construct ant
				interpret the rating curve,
				hydrograph, unit hydrograph.
				C06.4. Learn to draw rainfall

	GEO-A- CC-3-07 (TH & PR)	Statistical Methods in Geography	CO7	dispersion diagram, climatic water budget, ergograph and theissen polygon from precipitation data.CO7.1. Understand the importance of statistical data analysis in geography.CO7.2. Build an idea about theoretical distribution, also know about various type of sampling, understand time series analysis, central tendency, regression, correlation and hypothesis testing.CO7.3. Learn to use frequency table and data matrix of the samples.CO7.4. Understand and draw a scatter diagram and linear regression by using sample set of two relevant attributes.CO9.1. Understand the scope and
	SEC-A-3- 02-TH	Management		nature of tourism, ecotourism, factors and impact of tourism, trend of global tourism, infrastructure and planning.
SEMESTER IV	GEO-A- CC-4- 08(TH & PR)	Economic Geography	CO10	<ul> <li>CO10.1. It gives idea of meaning,</li> <li>approaches, concepts of economic</li> <li>geography and concept of</li> <li>economic man, distance and</li> <li>transport costs.</li> <li>CO10.2. Understand the different</li> <li>types of economic activities and</li> <li>international trades and</li> <li>organizations.</li> <li>CO10.3. Construct Choropleth</li> <li>mapping, occupational structure by</li> <li>proportional divided circles, time</li> <li>series analysis and transport</li> </ul>

			network analysis.
GEO-A- CC-4-09 (TH & PR)	Regional Planning and Development	CO11	<ul> <li>CO11.1. Aware of regions, regional planning, multi-level planning in India, metropolitan area and urban agglomeration.</li> <li>CO11.2. Understand the growth and development, models and theories of regional development, regional disparity, diversity and measures for balanced development in India.</li> <li>CO11.3. Delineate formal and functional regions, measurement of inequality and regional disparity,</li> </ul>
GEO-A- CC-4-10 (TH & PR)	Soil and Biogeography	CO12	<ul> <li>CO12.1. Understand the soil</li> <li>forming factors, soil properties, soil</li> <li>profile, soil erosion and</li> <li>degradation, soil classification.</li> <li>CO12.2. Understand the different</li> <li>terms of biogeography, tropic</li> <li>structure, energy flow, bio-</li> <li>geochemical cycles, deforestation,</li> <li>biodiversity.</li> <li>CO12.3. Examine soil reaction,</li> <li>salinity, ternary diagram, plant</li> <li>species diversity by matrix method,</li> <li>time series analysis of</li> <li>biogeography data.</li> </ul>
GEO-A- SEC-B-4- 03-TH	Rural Development	CO13	CO13.1.Know about the basic concept, elements and measures of level of rural development. CO13.2. Understand the paradigms of rural development. CO13.3. Study about the area bases approach to rural development.

				CO13.4. Develop the knowledge about rural governance. Panchayati raj system and rural development policies and programmes in India.
	GEO-A- SEC-B-4- 04-TH	Sustainable Development	CO14	<ul> <li>CO14.1.Study the concept,</li> <li>historical background, components</li> <li>and limitations of sustainable</li> <li>development.</li> <li>CO14.2. Learn what are the</li> <li>challenges of sustainable</li> <li>development correlate with</li> <li>environment and poverty.</li> <li>CO14.3. Study the global</li> <li>environmental issues and global</li> <li>goals for sustainable development.</li> </ul>
SEMESTER V	GEO-A- CC-5-11 (TH &PR)	Research Methodology and Fieldwork	CO15	<ul> <li>CO15.1. Aware of research methodology, research design.</li> <li>hypothesis, research problems, research materials and plagiarism.</li> <li>CO15.2. It gives the idea of role of fieldwork in geography, field techniques and tools, sampling and post field tabulation and analysis of data.</li> <li>CO15.3. Apply research techniques on field survey and make a field report.</li> </ul>
	GEO-A- CC-5-12 (TH & PR)	Remote Sensing, GIS and GNSS	CO16	<ul> <li>CO16.1. Get information about principles of remote sensing, sensor, image referencing schemes,</li> <li>FCC, image interpretation, acquisition and utilization.</li> <li>CO16.2. Know about GIS data structure, attribute tables, data manipulation, buffer and overlay analysis.</li> </ul>

				CO16.3. Apply image dereferencing and enhancement, supervised image classification, digitization of features and administrative boundaries, waypoint collection from GNSS.
	GEO-A- DSE-A-5- 02 (TH & PR)	Climate Change:Vulnera bilityand Adaptations	CO18	<ul> <li>CO18.1. Know the trend evidences and factors of climate change according to geological time scale, greenhouse gases and global warming.</li> <li>CO18.2. It gives idea of global initiatives to climate change mitigation, vulnerability assessment and awareness programmes.</li> <li>CO18.3. Analysis the trends of temperature, rainfall and mitigation measure of extreme climatic events.</li> </ul>
	GEO-A- DSE-B-5- 05 (TH & Geography PR) PR)		CO19	<ul> <li>CO19.1. It gives the knowledge of development of cultural geography, cultural hearth, realm, diffusion, segregation, diversity, races and racial groups and cultural regions.</li> <li>CO19.2. Understand the concept of rural and urban settlement, types, rural house types, urban morphology, city-region and conurbation.</li> <li>CO19.3. Determine mapping language distribution of India, housing distribution by Proportional Square, types of rural</li> </ul>
SEMESTER VI	GEO-A- CC-5-13 (TH &	Evolution of Geographical Thought	CO21	settlement and social area analysis. CO21.1. Get information about the nature of pre-modern geography, contribution of geographers, dark

P	PR)			age and discovery and exploration in geography, transition from cosmology to scientific geography. CO21.2. Get idea about foundations of modern geography and recent trends, changing concept and evolution of critical geography, post modernism. CO21.3. Identify the Identify the changing perception of maps of the world, timeline on geographers.
	GEO-A- CC-5-14 TH & PR)	Disaster Management	CO22	<ul> <li>CO22.1. Find out the concepts of hazards and disasters, approaches to hazard study, responses to hazards, hazards mapping.</li> <li>CO22.2. It gives idea of factors, vulnerability, consequences and management of earthquake, landslide, land subsidence, tropical cyclone, flood, riverbank erosion, fire and biohazard.</li> <li>CO22.3. Prepare a report on hazard management.</li> </ul>
	GEO-A- DSE-A-6- )4 (TH & PR)	Resource Geography	CO24	CO24.1. Study the concept, classification, approaches to resource utilization. Also they will find out the problems of resource depletion and sustainable resource development. CO24.2. Gain knowledge about the resource conflict and management. Contemporary energy crisis and future scenario. Politics of power resources and concept of limits to growth. CO24.3. Learn the application of

			mapping of forest cover and water
			bodies using satellite images.
			CO24.4. Identify the decadal
			changes in state wise production of
			coal and iron ore and computing
			human development index.
GEO-A-	Urban	CO25	CO25.1. Study the urban
DSE-B-6-	Geography		settlements its origin and evolution
07 (TH &			and its relates theories. Also
PR)			students know the approaches,
			patterns of urbanization, aspects of
			urban places and urban hierarchies.
			CO25.2. Learn about the urban
			growth, models of city structure,
			policies on urbanization and case
			studies in different cities with
			reference to land use.
			CO25.3. Diagrammatic concept of
			rank size rule, temporal analysis
			and I show the urban growth using
			census data.
			CO25.4. Learn how to prepare a
			land use map with the help of
			satellite images.
GEO-A-	Geography of	CO26	CO26.1. Study the physiographic
DSE-B-6-	India		divisions, climate, soil, vegetation,
08 (TH &			agricultural region, mineral and
PR)			power resources.
			CO26.2. Know about the
			population distribution and tribes in
			India. Although they also learn the
			geography of West Bengal. The
			physiographic division, resources,
			population and regional issues.
			CO26.3.An idea to show the
			monthly temperature and rainfall

		graphs.
		CO26.4. Be able to learn the crop
		combination, annual trends of
		production over two decades and
		composite index.

#### **Programmes Specific Outcomes (PSO): Geography**

PSOI: Adequate the knowledge of geomorphological and geotectonic processes and their formation.

PSO2: Brief the concept of ancient and contemporary geographical thought and its impact on modern science.

PSO3: Prepare a map by using GIS and modern geographical map making techniques.

PSO4: Gain knowledge of surveying and leveling of fields by using prismatic compass, dumpy level and theodolite and map projection skill will help them to be a good cartographer.

PSO5: Different type of thematic mapping with statistical techniques will help the students for grow their higher learning and research ability.

PSO6: Evaluate and apply the geographic techniques and related theories used to analyse and build a advance geographic concepts.

PSO7: Knowledge of weather forecasting with the help of weather symbols, codes and weather data.

PSO8: Test of soil samples and determination of nutritional status of the identified soil will help them in agricultural practice.

#### Programme Outcome (PO): Geography (Honours)

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

PO2. Effective Communication: Able to communicate geographic information by written, oral, graphical and quantitative outlets.

PO3. Social Interaction: Enhance their power of social interaction and ability of observation through field work experience where they find out social, economical and ecological problems of a locality.

PO4. Effective Citizenship: Demonstrate empathic social concern and equity centred national development and ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6. Environment and Sustainability: Understand the relationship of man and environment and gain knowledge about human geography and correlate it with their everyday life.

PO7. Laboratory Skills: Apply scientific thinking, research design, interpretation and documentation of laboratory experiments. Understand theoretical concepts of instruments that are commonly used in most geographical fields as well as interpret and use data generated in geographical analyses.

PO8. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long sustainable development.

### **Mapping of PO and CO**:

PO1. Critical thinking	PO2. Effective Communication	PO3. Social interaction	PO4. Effective Citizenship	PO5. Ethics	PO6. Environmental Awareness	P07. Laboratory skills	PO8. Self- directed and Life- long learning
CO2	CO3	CO3	CO2	CO7	CO1	CO1	CO1
CO4	CO6	CO5	CO3	CO8	CO3	CO2	CO2
CO7	CO8	CO6	CO4	CO9	CO5	CO3	CO3
CO11	CO9	CO8	CO7	CO14	CO6	CO4	CO4
CO15	CO10	CO9	CO8	CO15	CO8	CO5	CO5
CO16	CO11	CO10	CO9	CO18	CO9	CO6	CO6
CO21	CO13	CO11	CO10		CO10	CO7	CO7
CO22	CO14	CO13	CO11		CO11	CO10	CO10
CO26	CO15	CO14	CO13		CO12	CO11	CO11
	CO19	CO15	CO14		C013	CO12	CO12
	CO20	CO19	C015		CO14	CO15	C015
	CO23	CO20	CO16		CO15	CO16	CO16
	CO25	CO23	CO19		CO17	C017	C017
		CO25	CO20		CO20	CO18	CO18
		CO26	CO22		CO22	CO19	CO19
			CO23		CO23	CO20	CO20
			CO24		CO24	CO21	CO21
			CO25			CO22	CO22
			CO26			CO23	CO23
						CO24	CO24
						CO25	CO25
						CO26	CO26

## <u>COURSE OUTCOMES OF</u> <u>GEOGRAPHY GENERAL (B.A. &B.SC)</u> <u>UNDER CBCS</u>

#### Choice Based Credit System (CBCS): Syllabus in Geography

INTRODUCTION: In compliance with recent directives from the University Grants Commission, the undergraduate syllabus for Geography is reframed into Choice Based Cr edit System largely following the model syllabus prepared by the West Bengal State Council of Higher Education.

The main objective of this new curriculum is to give the students a holistic understanding of the subject, putting equal weight age to the core content and techniques used in Geography. The syllabus tries to give equal importance to the two main branches of Geography: Physical and Human.

The principal goal of the syllabus is to enable the students to secure a job at the end of the under graduate programme. Keeping this in mind and in tune with the changing nature of Geography, adequate emphasis is rendered on applied aspects of the subjects has emerging techniques of mapping and field-based data generation. The syllabus emphasizes on development of basic skills of the subject, so that everyone need not go for higher studies in search of professional engagement or employment.

LEARNING OUTCOMES: This syllabus is designed to impart basic knowledge on geography as a spatial science and train the undergraduates to secure employment in the sectors of geospatial analysis, development and planning , mapping and surveying. General Course: Core SubjectsGEO-G-CC-1-01-TH/P – Physical GeographyGEO-G-CC-2-02-TH/P– EnvironmentalGeographyGEO-G-CC-3-03-TH/P – Human GeographyGEO-G-CC-4-04-TH/P –Cartography General Course: Choices for Two Discipline Specific Electives GEO-G-DSE-A-5-01-TH/P – Regional DevelopmentGEO-G-DSE-A-5-02-TH/P – Geographyof TourismGEO-G-DSE-B-6-03-TH/P–

AgriculturalGeographyGEO-G-DSE-B-6-04-

TH/P- Population Geography

General Course: Choices for Two Skill Enhancement Courses GEO-G-SEC-A-3/5-01-TH– CoastalManagement GEO-G-SEC-A-3/5-02-TH–Forest and Wildlife Management GEO-G-SEC-B-4/6-03-TH–RuralDevelopment

GEO-G-SEC-B-4/6-04-TH-Sustainable Development

## COURSEOUTCOMES [General]

The course outcomes of the different papers offered are presented below. After completion of the course the student will be able to:

Course Code	Course Title	Credits	Course Outcomes
CC-1- 01Th+ P	Physical Geography	4+2=6	<ul> <li>Understand the theories and fundamental concepts of Geotectonic and Geomorphology. Understand earth's tectonic and structural evolution. Gain knowledgeabout earth's interior. Develop an idea about concept of plate tectonics, and resultant landforms.</li> <li>Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms.</li> <li>Understanding crustal mobility and tectonics; with special emphasis on their role in landform development.</li> </ul>
P			<ul> <li>Analyze the concepts of Hydrology and Oceanography</li> <li>Emphasizing the significance of ground water QUALITY and its circulation</li> <li>Evaluate the role of the global hydrological cycle.</li> <li>Studying the behavior and characteristics of the global oceans.</li> <li>Realize the importance of water conservation.</li> <li>Identify marine resources and characteristics of ocean waters.</li> <li>Interpret hydrological and rainfall dispersion graphs and diagrams.</li> <li>Identification of rocks and minerals.</li> <li>Acquire knowledge about Toposheet. Drawing different types of profile. Identification different types of drainage pattern and channel features.</li> </ul>

CC-2- 02Th+ P	Environmental Geography	4+2=6	• Understand the elements of weather and climate, different atmospheric phenomena and climate
			<ul> <li>Learn to associate climate with other environmental and human issues. Approaches to climate classification.</li> <li>To analyze the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.</li> <li>Have knowledge about the character and profile of different soil types.</li> </ul>

			$\Box$ Understand the impact of man as an active agent of
			soiltransformation, erosion and degradation.
			□ Explaining the Pedological and
			EdaphologicalApproaches to Soil Studies - Processes of
			soil
			formation,typesofsoil,andprinciplesofsoilandlandclassific
			ation;andmanagement.
			□ Understand the variedecosystems and classify them.
			□ Recognize the significance of biogeochemical
			cyclesandbiodiversity.
			<ul> <li>Comprehendthedevastatingimpactofdeforestation.</li> </ul>
			<ul> <li>Interpretation daily Weather maps of India.</li> </ul>
			<ul> <li>Construction and interpretation Hythergraph,</li> </ul>
			Climograph, and Wind rose.
			• Determination soil types by using ternary diagram.
			Preparation of Biodiversity register.
			$\Box$ Understand the concept of economic activity,
			factorsaffecting location of economic activity. Gain
			knowledgeaboutdifferent typesofEconomicactivities
CC-3-	Harris Cara materia	1.2 6	□ Assess the significance of Economic Geography, the concept of economic manand theories of choice.
03Th+	HumanGeography	4+2=6	□ Analyzethefactorsoflocationofagricultureandind
Р			ustries.
			$\Box$ Understand the evolution of varied types of
			economicactivities.
			GainknowledgeaboutmajorthemesofhumanGe
			ography.
			• Acquire knowledge on the history and evolution
			ofhumans.
			• Understand the approaches and processes of
			HumanGeography as well as the diverse patterns of
			habitat andadaptations.
			• Developan ideaabout space and society.
			<ul> <li>Understandthescopeandcontent ofculturalgeography</li> </ul>
			• Trace the development of cultural geography in relation to
			allieddisciplines
			• Understand the concept of cultural hearth and realm,
			cultural diffusion, diffusion of religion
			• Develop an understanding of cultural segregation and culturaldiversity,technologyanddevelopment
			Learnaboutthe variousraces and racial groups of the world
			Identifythe culturalregionsofIndia
			• Acquire knowledge about Urban and Rural settlements-
			Definition, natureandcharacteristics
			Mapandinterpretdataonoccupational structure,
			time series, arithmetic growth rate.
			• Analyze nearest neighbour by toposheet.

CC-4- 04Th+ PCartography4+2=6• Comprehend the concept of scales and representationofdatathroughcartograms. • Developanideaaboutdifferenttypesofthematicmap pingtechniques. • Haveknowledgeoftheprinciplesofremotesensing,s ensorresolutionsand imagereferencingschemes. • Understandandpreparedifferentkindsofmaps. • Recognizebasicthemes ofmapmaking. Developmentofobservationskills. • Interpretsatelliteimageryandunderstandthepr eparationoffalsecolorcompositesfromthem. • Develop some specific Projections.
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## **COURSEOUTCOMES**

#### [DISCIPLINESPECIFICELECTIVES]

Course Code	CourseTitle	Credits	CourseOutcomes
GEO-G- DSE-A-5- 01- TH+P	Regional Development		<ul> <li>Understandandidentifyregionsasanintegralpartofgeograph</li> <li>icalstudy.</li> <li>Appreciatethevariedaspectsofdevelopmentandregiona</li> <li>I disparity, in order to formulate measures</li> <li>ofbalanceddevelopment.</li> <li>Analyzingtheconceptof regionsandregionalization.</li> <li>Studying typical physiographic, planning, arid</li> <li>andbiotic regions of India. Understanding the</li> <li>detailedgeographyofIndia.</li> <li>Gain knowledge about definition of region, evolutionand</li> <li>types of regional planning. Develop an idea</li> <li>aboutchoiceofaregion forplanning.</li> <li>Build an idea about theories and models for</li> <li>regionalplanning.Knowaboutmeasuringdevelopmentindicator</li> <li>s.</li> <li>Gainknowledgeabout measuringinequalityby</li> <li>Location Quotient, and also measuring regional</li> <li>inequalitybyLorenz curve.</li> <li>Preparation of Z-Score.</li> </ul>
			• TounderstandaboutthePopulationscenariooftheworldandthe irrelatedproblems.
			<ul> <li>Toknowaboutthevariouspopulationcharacteristicsandrelated populationtheories.</li> </ul>

GEO-G- DSE-B-6- 04 T+P	PopulationGeograph y	4+2=6	•	Ithelpsthestudentstounderstandtheruralurbanpopulationstruc tureandtheirvariousissues.
1+r			•	Tounderstandaboutthemorphologyofthevarioussettlementpa ttern.
			•	Ithelpsstudentstounderstandthevarioussettlementtypesandth eir characteristics.

### COURSEOUTCOMES

#### [SKILL ENHANCEMENTELECTIVES]

Course Code	Course Title	Credits	CourseOutcomes
GEO-G- SEC-A- 3/5-02- TH	Forest and Wildlife Management	2	<ul> <li>Understand concepts of forest management planning at both the stand and estate level for strategic, tactical and operational planning.</li> <li>Students will be competent in basic forest management principles and evaluation of forest stands for health, wildlife habitat and lumber use.</li> <li>Students will be able to apply knowledge to solve problems related to wildlife conservation and management.</li> <li>Students will have a greater knowledge of how wildlife conservation and management relates to the economy and environment, both currently and in the future.</li> <li>Students will be able to find detailed information on a topic from print as well as online information sources.</li> <li>Students will be able to critically evaluate current events and public information related to wildlife conservation and management as being scientifically-based or opinion-based and contribute to the knowledge base of information.</li> </ul>

GEO-G- SEC-B- 4/6-03- TH	Rural Development		<ul> <li>RuralDevelopment:Concept,basicelements,measuresoflev elofruraldevelopment.</li> <li>Paradigms of rural development: Gandhian approach torural development.</li> <li>Area based approach to rural development: Droughtprone area programmes, PMGSY, SJSY, MNREGA, JanDhanYojana.</li> <li>RuralGovernance:PanchayatiRajSystemandruraldevel opmentpoliciesandProgrammesinIndia.</li> </ul>
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