AZAD HIND FOUZ SMRITI MAHAVIDYALAYA <u>Dept. of Geography</u> <u>Syllabus structuring & lesson plan(odd plan)</u> <u>2019-20 (CBCS)</u> <u>July-December 2019-20</u> <u>1st Semester</u> <u>GEO-A-CC-1-01-TH& P – Geotectonics and Geomorphology</u>

.	Unit I: Geotectonics (TH/P)						
Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examinat ion
1.1TH	Earth's tectonic and structural evolution with reference to geological time scale	НМК	July	TH (lecture method using ppt &interactive discussion)	Theoretical class of practical units Identificatio n of rocks & minerals	Short questions	
2TH	Earth's interior with special reference to seismology. Isostasy :Models of Airy, Pratt and their applicability	НМК	July	TH (lecture method using ppt & interactive discussion		Short questions	
3TH	Plate Tectonics as a unified theory of global tectonics: Processes and landforms at plate margins and hotspots	НМК	August	TH (lecture method using ppt & interactive discussion		MCQ	
4TH	. Folds and Faults—origin and types	HMK	September	TH (lecture method using ppt & interactive discussion		MCQ	
5.1P	Measurement of dip and strike using clinometers	НМК	July		Practical (Geo lab-21)	Practical examination with Clinometers	
6.2P	mineral samples: Bauxite, calcite, chalcopyrite, feldspar, galena, gypsum, hematite, magnetite, mica, quartz, talc, tourmaline &) rock samples: Granite, basalt, dolerite, laterite, limestone, shale, sandstone, conglomerate, slate, phyllite, schist, gneiss, quartzite, marble	НМК	July		Practical (Geo lab-21)	Viva on mineral & rock characteristics	

Unit I: Geotectonics (TH/P)

73.TH	Delineation of drainage basins	RBM	July	TH (lecture method using ppt & interactive discussion		MCQ	
8.4TH	hypsometric curve	RG	July	TH (lecture method using ppt & interactive discussion		MCQ	
9.3.P	Extraction and interpretation of geomorphic information from Survey of India 1:50k topographical maps of plateau region: Delineation of drainage basins, construction of relief profiles (superimposed, projected and composite), relative relief map, slope map (Wentworth's method), stream ordering (Strahler) and bifurcation ratio on a drainage basin	RBM	July to October		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
10.3.P	. Construction of hypsometric curve and derivation of hypsometric integer from Survey of India 1:50k topographical maps of plateau region	RG	July to October		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	

Unit II: Geomorphology (TH& P)

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
2.1TH	Degradational processes: Weathering, mass wasting and resultant landforms.	RG	July	TH (lecture method using ppt & Interactive discussion)		Short questions, MCQ & Viva	
2TH	Processes of entrainment, transportation and deposition by different geomorphic agents. Role of humans in landform development	RBM	July	TH (lecture method using ppt & interactivediscussion	ppt & interactivediscussion		
3TH	Development of river network and landforms on uniclinal and folded structures. Surface expression of faults.	RBM	August	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
4TH	Development of river network and landforms on granites, basalts and limestones	RBM	August	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
5TH	. Coastal processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
6TH	Glacial and glacio-fluvial processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
9TH	Aeolian and fluvio-aeolian processes and landforms	RBM	September	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
10TH	Role of time and systems approach in geomorphology. Models on landscape evolution: Views of Davis, Penck, King and Hack	RG	September& October	TH (lecture method using ppt & interactive discussion		Short questions MCQ & Viva	
							Test examination in November 2019-20

<u>GEO-A-CC-1-02-TH&P – Cartographic Techniques</u> Unit I&2:

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Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examinatio n
2.3.1	. Maps: Components and classification	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
2	Concept and application of scales: Plain, comparative, diagonal and Vernier	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
3	Coordinate systems: Polar and rectangular	HMK	July	TH (lecture method using ppt & interactive discussion)		Short questions	
4	Concept of generating globe	HMK	August	TH (lecture method using ppt & interactive discussion)		Short questions	
5	Grids: Angular and linear systems of measurement	HMK	August	TH (lecture method using ppt & interactive discussion)		Short questions	
6	. Bearing: Magnetic and true, whole-circle and reduced	HMK	Septem ber	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
7	. Concept of geoid and spheroid with special reference to Everest and WGS-84	HMK	Septem ber	TH (lecture method using ppt & interactive discussion)		Short questions	
8	Map projections: Classification, properties and uses	RBM	July	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
9	Concept and significance of UTM projection	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions	
10	. Representation of data using dots and proportional circle	RG	July	TH (lecture method using ppt & interactive discussion)		Short questions	
11	Representation of data using isopleth and choropleth	RG	August	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
12	Survey of India topographical maps: Reference scheme of old and open series. Information on the margin of maps	RBM	August	TH (lecture method using ppt & interactive discussion)		Short questions& MCQ & Viva	
2.4.1	Graphical construction of scales: Plain, comparative, diagonal and Vernier		Septem ber		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	Construction of projections: Polar Zenithal		Septem		Practical (Short questions &	

	Stereographic, Simple Conic with one standard	ber	Geo lab-21) & application	
	parallel, Bonne's, Cylindrical Equal Area, and		room no 1	(oriented short	
	Mercator's		tracing un	t) examinations.	
3	Thematic maps: Proportional squares, pie diagrams	Septem	Practical (Short questions &	
	with proportional circles, dots and spheres	ber	Geo lab-21) & application	
			room no 1	(oriented short	
			tracing un	t) examinations.	
4	Thematic maps: Choropleth, isopleths, and	oct	Practical (Short questions &	Test
	chorochromatic maps		Geo lab-21) & application	examinatio
			room no 1	(oriented short	n in
			tracing un	t) examinations.	November
					2019-20

AZAD HIND FOUZ SMRITI MAHAVIDYALAYA Dept. of Geography

Syllabus structuring & lesson plan

2019-20 (July to December) (Uneven semester) <u>3rd Semester</u>

GEO-A-CC-3-05-TH – Climatology (TH & P)

Unit I: Elements of the Atmosphere

Unit	Section	Teach	Time frame	Theory	Practical	CIE	Internal
	ļ	er					examination
1	Nature, composition and layering of the atmosphere	RBM	July	TH (lecture method using ppt & interactive discussion)		MCQ	
2	Isolation: Controlling factors. Heat budget of the atmosphere	RBM	July	TH (lecture method using ppt & interactive discussion)		MCQ	
3	Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences	RBM	August	TH (lecture method using ppt & interactive discussion)		MCQ	
4	Overview of climatechange:Greenhouse effect. Formation, depletion and significance of the ozone layer	RBM	August	TH (lecture method using ppt & interactive discussion)		MCQ	
1P	Measurement of weather elements using analogue instruments: Mean daily temperature, air pressure,relative humidity, rainfall	RBM	July to october		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2P	Interpretation of a daily weather map of India (any two): Pre-Monsoon, Monsoon and Post- Monsoon	RBM	July to october		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3P	Construction and interpretation of hythergraph and climograph	RG	July to october		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4P	Construction and interpretation of wind rose	RG	July to october		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in December 2019-20

Unit	Section	Teac	Time	Theory	Practical	CIE	Internal
		her	frame				examination
2.5	Condensation: Process and forms. Mechanism of	RG	July	TH (lecture method using		MCQ&	
	precipitation: Bergeron-Findeisen theory,			ppt & interactive discussion)		Short	
	collision and coalescence. Forms of precipitation					questions	
6	Air mass: Typology, origin, characteristics and	RG	July	TH (lecture method using		MCQ&	
	modification		_	ppt & interactive discussion)		Short	
						questions	
7	Fronts: Warm and cold, frontogenesis and	RG	July	TH (lecture method using		MCQ&	
	frontolysis		-	ppt & interactive discussion)		Short	
	·					questions	
8	Weather: Stability and instability, barotropic	RG	August	TH (lecture method using		MCQ	
	and baroclinic conditions		U	ppt & interactive discussion)		-	
9	Circulation in the atmosphere: Planetary winds,	RG	August	TH (lecture method using		MCQ	
	jet streams, index cycle			ppt & interactive discussion)			
10	Atmospheric disturbances: Tropical and mid-	RG	Septem	TH (lecture method using		MCQ	
	latitude cyclones, thunderstorms		ber	ppt & interactive discussion)			
11	Monsoon circulation and mechanism with	RG	Septem	TH (lecture method using		MCQ&	
	reference to India		ber	ppt & interactive discussion)		Short	
						questions	
12	Climatic classification after Thornthwaite	RG	October	TH (lecture method using		MCQ&	Test examination in
				ppt & interactive discussion)		Short	December 2019-20
						questions	
						-	Sign of final lab
							work in December
							2019-20

Unit II: Atmospheric Phenomena and Climatic Classification

GEO-A-CC-3-06-TH – Hydrology and Oceanography (TH) Unit-I: Hydrology

Unit	Section	Teacher	Time	Theory	Practi	CIE	Internal
			frame	_	cal		examination
3.1	Systems approach in hydrology.	HMK	July	TH (lecture method using		MCQ&	
	Global hydrological cycle: Its			ppt & interactive		Short	
	physical and biological role			discussion)		questions	
2	Run off: controlling factors.	HMK	July	TH (lecture method using		MCQ&	
	Infiltration and			ppt & interactive		Short	
	evapotranspiration. Run off			discussion)		questions	
	cycle						
3	Drainage basin as a	HMK	August				
	hydrological unit. Principles of						
	water harvesting and watershed						
	management						
4	Groundwater: Occurrence and	HMK	August	TH (lecture method using		MCQ&	
	storage. Factors controlling			ppt & interactive		Short	
	recharge, discharge and			discussion)		questions	
	movement						

Unit-II: Oceanography:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.5	Major relief features of the ocean floor: Characteristics and origin according to plate tectonics	RG	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
6	Physical and chemical properties of ocean water	RG	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
7	Water mass, T–S diagram	RG	August	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	

8	Air-Sea interactions, ocean	RG	August	TH (lecture	MCQ& Short	
	circulation, wave and tide			method using ppt &	questions	
				interactive		
				discussion)		
9	Ocean temperature and salinity:	RG	September	TH (lecture	MCQ& Short	
	Distribution and determinants			method using ppt &	questions	
				interactive		
				discussion)		
10	Coral reefs: Formation,	RBM	July	TH (lecture	MCQ& Short	
	classification and threats			method using ppt &	questions	
				interactive		
				discussion)		
11	Marine resources: Classification	RBM	August	TH (lecture	MCQ& Short	
	and sustainable utilization			method using ppt &	questions	
				interactive		
				discussion)		
12	Sea level change: Types and	RBM	September	TH (lecture	MCQ& Short	Test
	causes			method using ppt &	questions	examination
				interactive		in December
				discussion)		2019-20
						Sign of final
						lab work in
						December
						2019-20

Uni	Section	Teacher	Time frame	Theory	Practic	CIE	Internal
t					al		examination
3.7.	Importance and significance of statistics in	HMK	July	TH (lecture method using ppt&		MCQ& Short	
1	Geography			interactive discussion)		questions	
2	Discrete and continuous data, population and	HMK	July	TH (lecture method using ppt&		MCQ& Short	
	samples, scales of measurement (nominal,			interactive discussion)		questions	
	ordinal, intervaland ratio)			,			
3	Sources of geographical data for statistical	HMK	August	TH (lecture method using ppt&		MCQ& Short	
	analysis			interactive discussion)		questions	
				,			
4	Collection of data and formation of statistical	HMK	August	TH (lecture method using ppt		MCQ& Short	
	tables			&interactive discussion)		questions	
				, ,			
5	Sampling: Need, types, and significance and	HMK	September	TH (lecture method using ppt		MCQ& Short	
	methods of random sampling			&interactive discussion)		questions	
				,			
6	Theoretical distribution: Frequency, cumulative	HMK	July	TH (lecture method using ppt		MCQ& Short	
	frequency, normal and probability			&interactive discussion)		questions	
				,			
7	Central tendency: Mean, median, mode,	HMK	August	TH (lecture method using ppt		MCQ& Short	
	partition values			&interactive discussion)		questions	
				,			
8	Measures of dispersion range, mean deviation,	HMK	September	TH (lecture method using ppt		MCQ& Short	
	standard deviation, coefficient of variation			& interactive discussion)		questions	
				,			
9	Association and correlation: Rank correlation,	HMK	July	TH (lecture method using ppt		MCQ& Short	
	product moment correlation			& interactive discussion)		questions	
10	Regression: Linear and non-linear	HMK	July	TH (lecture method using ppt		MCQ& Short	
				& interactive discussion)		questions	
11	Time series analysis: Moving average	HMK	August	TH (lecture method using ppt		MCQ& Short	
				& interactive discussion)		questions	
12	Hypothesis testing: Chi-squared test and T-test	HMK	August	TH (lecture method using ppt		MCQ& Short	
				& interactive discussion)		questions	

<u>GEO-A-CC-3-07-TH – Statistical Methods in Geography (TH)</u> Unit I: Frequency Distribution and Sampling & Unit II: Numerical Data Analysis

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.6.1 P	Construction and interpretation of rating curves	RG	July		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	Construction and interpretation hydrographs and unit hydrographs	RBM	July		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3	Monthly rainfall dispersion diagram (Quartile method), Climatic water budget, and Ergograph	RG	Augus t		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4	Construction of Theissen polygon from precipitation data	НМК	Augus t		Practical (Geo lab-21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in December 2019-20
							Sign of final lab work in December 2019-20

GEO-A-CC-3-06-P – Hydrology and Oceanography Lab

<u>GEO-A-CC-3-07-P – Statistical Methods in Geography Lab</u>

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
3.7.1	Construction of data matrix with each row	HMK	July		Practical (RS-	Short questions &	
Р	representing an areal unit mouzas / towns) and				GIS Lab) & room	application oriented short	
	corresponding columns of relevant attributes				no 19 (tracing	examinations.	
					unit)		
2	Based on the above, a frequency table, measures	HMK	August		Practical (RS-	Short questions &	
	of central tendency and dispersionwould be				GIS Lab) & room	application oriented short	
	computed and interpreted using histogram and				no 19 (tracing	examinations.	
	frequency curve				unit)		
3	From the data matrix, a sample set (20%) would	HMK	September		Practical (RS-	Short questions &	
	be drawn using random, systematic andstratified				GIS Lab) & room	application oriented short	
	methods of sampling and the samples would be				no 19 (tracing	examinations.	
	located on a map with an explanation of the				unit)		
	methods used						
4	Based on of the sample set and using two relevant	HMK	October		Practical (RS-	Short questions &	Test examination in
	attributes, a scatter diagram andlinear regression				GIS Lab) & room	application oriented short	December 2019-20
	line would be plotted and residual from regression				no 19 (tracing	examinations.	
	would be mapped with a short interpretation				unit)		
							Sign of final lab work
							in December 2019-20

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
A-3.1	Scope and Nature: Concepts and issues, tourism, recreation and leisure inter-relations	RBM	July	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Factors influencing tourism, Types of Tourism: Ecotourism, cultural tourism, adventure tourism, medicaltourism, pilgrimage, international, national	RBM	August	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	Use of information on factors (Historical, natural, socio-cultural and economic; motivating factors forpilgrimages) to plan destination marketing; tourism products; niche tourism planning	RG	September	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Tourism impact assessment, Sustainable tourism, Information Technology and Tourism, Tour operationsplanning and guiding	RG	October	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
5	Increasing Global tourism; Tourism in India: Tourism infrastructure, access, planning for different budgetsfor case study sites of Western Himalayas, Goa, Chilka/ Vembanad, Jaipur	RBM	October	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	Test examination in December 2019-20

<u>GEO-A-SEC-A-3-02-TH – Tourism Management (TH)</u>

LESSON PLAN OF GEOGRAPHY HONOURS FOR THE ACADEMIC SESSION 2020-21 EVEN SESSION <u>AZAD HIND FOUZ SMRITI MAHAVIDYALAYA</u> <u>Dept. of Geography</u> <u>Syllabus structuring & lesson plan</u> <u>2019-20 CBCS)</u> JANUARY TO JUNE 2019-20

2ND SEMETER

GEO-A-CC-2-03- – Human Geography (TH &P) Unit I & II : Nature and Principles (TH/P)& Society, Demography and Ekistics

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
1.1TH	Nature, scope and recent trends. Elements of human geography	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
2TH	Approaches to Human Geography: Resource, locational, landscape, environment	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
3TH	Concept and classification of race. Ethnicity	RBM	JANUARY	TH (lecture method using ppt & interactive discussion)		MCQ	

4TH	Space, society and cultural regions (language and religion)	RBM	MARCH	TH (lecture method using ppt & interactive discussion)	MCQ	
5TH	Evolution of human societies: Hunting and food gathering, pastoral nomadism, subsistence farming and industrial society	RBM	MARCH	TH (lecture method using ppt & interactive discussion		
6TH	Human adaptation to environment: Case studies of Eskimo, Masai and Maori	RBM	APRIL	TH (lecture method using ppt & interactive discussion		
7TH	Population growth and distribution, composition; demographic transition	RG	MAY	TH (lecture method using ppt & interactive discussion		
8TH	Population–resource regions (Ackerman	RG	JUNE	TH (lecture method using ppt & interactive discussion		
<i>9TH</i>	Development– environment conflict	RG	JUNE	TH (lecture method using ppt & interactive discussion		

<i>10TH</i>	Types and patterns of rural settlements		JUNE	TH (lecture method using ppt & interactive discussion		
<i>11TH</i>	Rural house types in India	RG	JUNE	TH (lecture method using ppt & interactive discussion		
12 TH	Morphology and hierarchy of urban settlements	RG	JUNE	TH (lecture method using ppt & interactive discussion		
13P	Spatial variation in continent- or country-level religious composition by divided proportional circles	RBM	JUNE	PR(ROOM NO-22)		
14P	Measuring arithmetic growth rate of population comparing two decadal datasets	RG	JUNE	PR(ROOM NO-22)		
15P	Types of Age-Sex pyramids (progressive, regressive, intermediate and stationary):	RG	JUNE	PR(ROOM NO-22)		

	Graphical representation and analysis					
16P	Nearest neighbour analysis from Survey of India 1:50k topographical maps (5' x 5')	RBM	JUNE	PR(ROOM NO-22)		

GEO-A-CC-2-0-TH & P – Thematic Mapping and Surveying

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
2.71 TH	Concepts of rounding, scientific notation. Logarithm and anti-logarithm. Natural and log scales	НМК	JANUARY	TH (lecture method using ppt & interactive discussion)		Short questions	
2.72 TH	Concept of diagrammatic representation of data	RBM	JANUARY	TH (lecture method using ppt & interactive		Short questions	

				discussion)		
2.73 TH	Preparation and interpretation of geological maps	НМК	JANUARY	TH (lecture method using ppt & interactive discussion)	MCQ	
2.74 TH	Preparation and interpretation of weather maps	RBM	MARCH	TH (lecture method using ppt & interactive discussion)	MCQ	
2.75 TH	Preparation and interpretation land use land cover maps	НМК	MARCH			
2.76 TH	Preparation and interpretation of socio-economic maps	RBM	MARCH			
2.77TH	Principal national agencies producing thematic maps in India: NATMO, GSI, NBSSLUP, NHO, NRSC / Bhuvan, etc.	HMK	MARCH			
2.78TH	Basic concepts of surveying and survey equipment: Prismatic compass	HMK	APRIL			
2.79 TH	Basic concepts of surveying and survey equipment: Dumpy level	НМК	APRIL			

2.710TH	Basic concepts of surveying and survey equipment: Theodolite	НМК	APRIL		
2.11 TH	Basic concepts of surveying and survey equipment: Abney level	НМК	APRIL		
2.712TH	Basic concepts of surveying and survey equipment: Laser distance measurer	HMK	APRIL		
2.81P	Traverse survey using prismatic compass	HMK	MAY	Practical (Geo lab-21) & room no 19	
2.82P	Profile survey using dumpy Level	НМК	MAY	Practical (Geo lab	
2.83P	Height determination of base accessible and inaccessible (same vertical plane method) objects by theodolite	НМК	MAY	Practical (Geo lab	
2.84P	Interpretation of geological maps with uniclinal structure, folds, unconformity, and intrusions	НМК	JUNE	Practical (Geo lab	

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<u>Dept. of Geography</u> <u>Syllabus structuring & lesson plan</u> <u>2019-20 CBCS</u>) <u>January to June (2019-20)</u> <u>4TH Semester</u> GEO-A-CC-4-08-TH – Economic Geography (TH)

Unit I: Concepts:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.1	Meaning and	RBM	January	TH (lecture		MCQ& Short	
	approaches to			method using		questions	

	economic geography			ppt & interactive discussion)		
2	Concepts in economic geography: Goods and services, production, exchange and consumption	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Concept of economic man, theories of choices	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Economic distance and transport costs	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	

Unit II: Economic Activities:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
4. II. 1	Concept and classification of economic activities	RG	January	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Factors affecting location of economic activity with special reference to agriculture	НМК	February	TH (lecture method using ppt & interactive discussion		MCQ& Short questions	

3	Primary activities: Agriculture, forestry, fishing and mining	RG	February	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
4	Secondary activities: Classification of manufacturing, concept of manufacturing regions, special economic zones and technology parks	RG	March	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
5	Tertiary activities: Transport, trade and services	RG	January	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
6	Transnational sea-routes, railways and highways with reference to India	RG	February	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
7	International trade and economic blocs	RBM	February	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	
8	WTO and BRICS: Evolution, structure and functions	RBM	March	TH (lecture method using ppt & interactive discussion	MCQ& Short questions	Test examination in June <u>2019-20</u>

GEO-A-CC-4-08-P – Economic Geography Lab

Unit Section Teacher Time frame	Theory Practical	CIE	Internal
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						examination
4-P.1	Choropleth mapping of state-wide variation in GDP	RBM	January	Practical (GEO Lab R- 21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
2	State-wide variation in occupational structure by proportional divided circles	RBM	February	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
3	Time series analysis of industrial production (India and West Bengal	RG	January	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	
4	Transport network analysis by detour index and shortest path analysis	RG	February	Practical (GEO Lab R21) & room no 19 (tracing unit)	Short questions & application oriented short examinations.	Test examination in June <u>2019-</u> <u>20</u>
						Sign of final lab work in June <u>2019-20</u>

GEO-A-CC-4-09-TH – Regional Planning and Development

Unit I: Regional Planning:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
4.9.1	Concept of regions: Types of regions and their delineation	RBM	January	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Regional Planning: Types, principles, objectives, tools and techniques	RBM	February	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	Regional planning and multi-level planning in India	RBM	March	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Metropolitan concept and urban agglomerations	RBM	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	Test examination in June 2019- 20

Unit II: Regional Development:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

4.9. II.1	Concepts of growth and development, growth versus development	RG	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
2	Indicators of development: Economic, social and environmental	RG	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Human development: Concept and measurement	RG	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Theories and models for regional development: Cumulative causation	НМК	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
5	Theories and models for regional development: Stages of development (Rostow), growth pole model (Perroux)	НМК	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
6	Concept and causes of underdevelopment	RG	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	

7	Regional development in India: Disparity and diversity	RG	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
8	Need and measures for balanced development in India	RG	April	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	Test examination in June 2019- 20

GEO-A-CC-4-09-P – Regional Planning and Development Lab

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.9.P-	Delineation of formal	HMK			Practical (Short	
1	regions by weighted		January		GEO Lab R-	questions &	
	index method				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
					_	examinations.	
2	Delineation of	HMK			Practical (Short	
	functional regions by		February		GEO Lab R-	questions &	
	breaking point				21) & room	application	
	analysis				no 19 (oriented	
					tracing unit)	short	
						examinations.	
3	Measurement of	HMK			Practical (Short	
	inequality by location		March		GEO Lab R-	questions &	
	quotient				21) & room	application	

				no 19 (tracing unit)	oriented short examinations.	
4	Measuring regional disparity by Sopher index	НМК	April	Practical (GEO Lab R- 21) & room no 19 (tracing unit)	application oriented	Test examination in June <u>2019-</u> <u>20</u>
						Sign of final lab work in June2019-20

GEO-A-CC-4-10-TH – Soil and Biogeography

Unit I: Soil Geography:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

		HMK		TH (lecture	MCQ&	
4.10.	Factors or soil		January	method using	Short	
I.1	formation. Man as an			ppt &	questions	
	active agent of soil			interactive	_	
	transformation			discussion)		
		НМК		TH (lecture	MCQ&	
2	Soil profile. Origin		February	method using	Short	
	and profile			ppt &	questions	
	characteristics of			interactive	_	
	lateritic, podzol and			discussion)		
	chernozem soils					
		HMK		TH (lecture	MCQ&	
3	Definition and		March	method using	Short	
	significance of soil			ppt &	questions	
	properties: Texture,			interactive		
	structure and moisture			discussion)		
		HMK		TH (lecture	MCQ&	
4	Definition and		April	method using	Short	
	significance of soil			ppt &	questions	
	properties: pH,			interactive		
	organic matter and			discussion)		
	NPK					
				TH (lecture	MCQ&	
5	Soil erosion and	RG	January	method using	Short	
	degradation: Factors,			ppt &	questions	
	processes and			interactive		
	mitigation measures			discussion)		
				TH (lecture	MCQ&	
6	Principles of soil	RG	February	method using	Short	Test
	classification: Genetic			ppt &	questions	examination
	and USDA. Concept of			interactive		in June 2019-
	land capability and its			discussion)		20

classification			

Unit II: Biogeography:

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination

4.10. II.1	Concepts of biosphere, ecosystem, biome, ecotone, community and ecology	RBM	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
2	Concepts of trophic structure, food chain and food web. Energy flow in ecosystems	RBM	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
3	Classification of world biomes (Whittaker). Geographical extent and characteristics of tropical rain forest, savanna, hotdesert, taiga and coral reef biomes	НМК	January	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
4	Bio-geochemical cycles with special reference to carbon dioxide and nitrogen	НМК	February	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
5	Deforestation: Causes, consequences and management	RBM	March	TH (lecture method using ppt & interactive discussion)	MCQ& Short questions	
6	Biodiversity: Definition, types, threats and	RBM	April	TH (lecture method using ppt &	MCQ& Short questions	Test examination in June 2019-

conservation measures		interactive		20
		discussion)		

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal
							examination
4.10.	Determination of soil	RBM	January		Practical (Short	
P.1	reaction (pH) and				GEO Lab R-	questions &	
	salinity using field kit				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
					0 /	examinations.	
2	Determination of soil	RG	February		Practical (Short	
	type by ternary				GEO Lab R-	questions &	
	diagram textural				21) & room	application	
	plotting				no 19 (oriented	
					tracing unit)	short	
					0	examinations.	
3	Plant species diversity	HMK	March		Practical (Short	
	determination by				GEO Lab R-	questions &	
	matrix method				21) & room	application	
					no 19 (oriented	
					tracing unit)	short	
					8 /	examinations.	
4	Time series analysis of	HMK	January		Practical (Short	Test
	biogeography data		-		GEO Lab R-	questions &	examination
					21) & room	application	in June 2019-
					no 19 (oriented	20
					tracing unit)	short	

GEO-A-CC-4-10-P – Soil and Biogeography Lab

			examinations.	
				Sign of final
				lab work in
				June2019-20

Unit	Section	Teacher	Time frame	Theory	Practical	CIE	Internal examination
B.4.1	Sustainable development: Concept, Historical background, components, limitations	RBM	March	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
2	Challenges of sustainable development: Determinants, linkage among sustainable development, environment and poverty	RBM	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
3	Global environmental issues: Population, income and urbanization, health care, forestand water resources	RG	April	TH (lecture method using ppt & interactive discussion)		MCQ& Short questions	
4	Global goals for sustainable development:	RG	May	TH (lecture method using ppt &		MCQ& Short questions	Test examination in June 2019-

GEO-A-SEC-B-4- -TH – Sustainable Development

Domain, conflict,	interactive	20
crisis and	discussion)	
compromise		