NATIONAL BUSINESS AND TECHNICAL EXAMINATIONS BOARD GEOGRAPHY (196) - SYLLABUS

INTRODUCTION

This syllabus has been designed from Nigerian Educational Research and Development Council (NERDC) for senior certificate categories. It is geared towards the achievement of the Millenium Development Goals (MDGs) and the critical elements of the National Empowerment and Development Strategies (NEEDS) of the Federal Government.

AIMS:-

Basically, Geography addresses issues that have to do with man and his socio-cultural and physical environment; its ability to help to circumvent the fundamental matters of environmental possibilism, determinism and probabilism. This syllabus is therefore designed to test the candidates' achievement of underlining course objectives. OBJECTIVES:

At the end of this course, students should be able to:

- i. Show understanding of interrelationship between man and his environment;
- ii. Describe the regional geography of Nigeria and west Africa;
- iii. State the relationship between remote sensing and Geo-informatics system;
- iv. Show understanding of ozone layer depletion, desertification, land degradation, deafforestation, among others occurrences affecting the world today;
- v. Discuss various geographical phenomena at global level, in term of industrialization, transportation, population amongst others;
- vi. Demonstrate knowledge of man's physical and human environment and how man lives and earns a living;
- vii. Understand and interpret topographical maps, compute statistical data, illustration with diagrams, and carry out basic field surveys;
- viii. Prepare Business and technical graduates to take up courses in tertiary institutions of learning

SCHEME OF EXAMINATION

The examination will be made up of two papers;

- 196-1 paper 1: (Objectives and theory), 130 marks (3 Hours).
- 196-2 paper 2: (Practical Alternative and Physical Geography), 100 marks (2 hours).

Paper 1: This consists of two sections Section A and Section B.

- Section A: this comprises fifty (50) multiple-choice questions to be answered by candidates in one (1) hour for 50 marks.
- Section B: This comprises eight (8) Essay questions in Human and Economic Geography, and Regional Geography. Candidates are to answer four (4) questions only. Two (2) questions in Human and Economic Geography, and two (2) questions in Regional Geography. Each of the Essay Questions carries 20 marks each for a total of 80 marks in a duration of two (2) hours.

Therefore, Section A is 50 marks, and Section B is 80 marks, totalling 130 marks.

Paper 2: This also consists of two (2) sections: Section A and section B.

- Section A: This consists of practical in Map Reading to be answered by candidates in One (1) hour for 40 marks.
- Section B: This comprises six(6) Essay questions in Physical Geography. Three questions are to be answered by candidates in one (1) hour at 20 marks each for a total of 60 marks.

Section A is 40 marks, and section B is 60 marks, with a total of 100 marks.

Therefore, paper 1 is 30 marks, and paper 2 is 100 marks with a grand total of 230 marks.

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S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
	LOCAL GEOGRAPHY		·
1.0	 Town/village 1.1 Identify physical and cultural features of their town/village 1.2 Locate the physical and cultural feature in relation to the school and its surrounding/environment 1.3 Describe the influence of physical and cultural features of the town/village on human activities 	i. Physical features o Relief o Vegetation o Climate o Drainage etc. ii. Cultural features e.g. Church, mosque, market, roads, settlements etc.	 a. Carry out field work b. Identifyand locate the physical and cultural features of the town/village. c. Explain the location of physical and cultural features in relation to the town/village e.g.
		 iii. Direction and location of physical and cultural features within the town/village. iv. Influence on human activities e.g. farming, fishery, pottery, trade, etc. 	 rivers, hills, streams, church, mosque, market etc. d. Draw a sketch map of the town/village showing the location, direction, distance of physical and cultural features in relation to the school.
2.0	 The local Government Area (LGA) 2.1 Identify the local government headquarters; 2.2 Locate the village/town, ward and LGA; 2.3 Explain the locationals relationship between the LGA and other local Government Areas in the state; 2.4 Describe the major physical features of the LGA in relation to the state. 	 i. LGA headquarters ii. Locational Relationship iii. Physical characteristics Relief Vegetation Climate Drainage etc iv. Economic Activities: E.g. transportation, agriculture, fishing, trade, etc. 	 a. Carry out field work b. Explain c. Location, direction and distance wards/villages/towns in the LGA. d. Physical characteristics of the LGA. e. Economic activities of the LGA. f. Draw a sketch map of the LGA; and - Locate their village/town on the map, - Insert major physical features, - Show the major economic activities of the LGA.
30	The earth and other planers	i Componente of the color	a Domonatrata how to
3.0	 3.1 Identify the components of the solar system; 3.2 Describe the position of the earth in relation to the sum and other planets; 	 i. Components of the solar system e.g. Mercury, Venus, Earth etc. ii. The earth Size Shape Position in relation to the 	 a. Demonstrate how to model Solar System. b. Use the model to identify and describe components of the solar system. c. Explain the:

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVI	TIES/REMARKS
	3.3 Proof the shape of the earth.	Sun and other planets.	-	Shape and size of
				the earth.
			-	Position of the
				earth in relation to
				the sun and other
				planets.
			d.	Highlight the
				major features of
				the earth and
				other planets.
4.0	Earths rotation and revolution	i. Meaningofrotation	а.	Use the globe and
	4.1 Describe the phenomena of earths	revolution.		other models to
	rotation and revolution;	ii. Effects of rotation and		demonstrate
	4.2 Explain the effects of the earths	revolution;		rotation and
	rotation and revolution	Day and night		revolution
		Axis	b.	Explain the effects
		Orbit		of the earths
		 Seasons 		rotation and
		Equinoxes		revolution
		Solstice	C.	Highlight three
		Hemisphere, etc		major effects each
				of rotation and
5.0				revolution
5.0	Latitude and longitudes	I. Latitude;	a.	Use the globe and
	1.1 Define latitude and longitude;	- Meaning of latitude		map of the world
	1.2 Differentiate between latitude	- Equator		
	1.3 Describe the relationship	- Latitudeand distances		Explain.
	between latitude and major	- regions of the world	-	longitudes
	regions of the word:	(tropics of cancer and		Faustor
	1.4. Use latitude and longitude to	Capricorn Arctic and		Meridian
	locate positions of towns	Antarctic circles	_	Greenwich mean
	countries, cities, etc:	ii. Longitudes:		time (GMT)
	1.5 Deduce distances and local time	- Meaning of longitudes	-	International
	from latitude and longitude.	- Time and time zones		dateline
		- International dateline	-	Grid references.
		- Grid references	b.	Explain
			-	The Equator
			-	Relationship with
				major regions of
				the world
			-	The meridian and
				the time zones, etc.
			C.	Explanation on
				how to
			-	Differentiate
				between latitude
				and longitude;
			-	Determine
				distances using
				latitude;
			-	Calculate local time
				of places from
				Iongitude

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
6.0	 The Earths structure 6.1 Identify the major spheres of the earth; 6.2 Identify the component layers of the earths crust; 6.3 Describe the characteristics of each Layer; 6.4 Draw and label the cross section of the earths interior; 6.5 Explain the relationship between the atmosphere, biosphere, lithosphere and hydrosphere. 	 i. Major spheres of the earth: Atmosphere Biosphere Lithosphere Hydrosphere Relationship between the three sphere. iii. Relevance to human activities. iv. Structure of the earth Crust Mantle Core 	 a. Use diagram and sketches to Identify earths major spheres Identify the structure of earth crust Explain Composition of the spheres Structure and characteristics of crust, mantle and core The relationship between the three major spheres and their relevance to human activities
7.0	 Rocks 7.1 identify the major types of rocks; 7.2 Describe the structure of igneous sedimentary and metamorphic rocks; 7.3 State the distinguishing characteristics of different types of rocks; 7.4 Explain the process involved in the formation of rock types; 7.5 Explain the importance and disadvantages of rocks to man. 	 i. Types of Rocks Igneous Sedimentary Metamorphic Characteristics of rocks Structure Colour Texture Permeability Mode of formation of the rock types Importance of rocks to man 	 a. Carry out field work to collect and classifyrocks b. Explain Structure, colour, texture and permeability of the rock types Process for the formation of igneous sedimentary and metamorphic rocks Importance of the rock types c. Prepare and albumofrocksin the locality.
8.0	 Mountains 8.1 Identify major mountain types; 8.2 State the distinguishing characteristics of the different types of mountains; 8.3 Explain the processes involved in the formation of the different mountain types; 8.4 Explain the importance and disadvantages of mountains to man. 	 i. Types of mountains Volcanic Fold Block Residual Characteristics of the mountain Mode of formation of the mountain types iii. Importance of mountains Minerals Agriculture Communication Climatic effect etc 	 a. Use pictures and models to identify different mountains types b. Take a tour of the locality to observe highlands in the locality c. Explain: Structure and characteristics of the mountain types Process for the

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
			Formation of the mountain
			disadvantages of
			mountains to man
9.0	 Lowlands 9.1 Identify the major types of lowlands; 9.2 Describe the characteristics of the different types of lowlands; 9.3 Explain the processes involved in the formation of lowlands; 9.4 Explain the importance of lowlands to man. 	i. Types of lowland: Valley Coastal Plain etc. ii. Characteristics of Valleys Plains Coastal areas. iii. Mode of formation of the lowlands. iv. Importance of Iowlands.	 a. Carry out field work to observe some lowlands. b. Use models, illustrative diagrams, pictures and sketches to explain: Characteristics of the different types of lowlands Processes for the formation of lowlands (valleys, plains and coastal areas) Importance of lowlands e.g. Agriculture, minerals, timber etc., Make models of the different types
10.0	 Earths External; processes and Landform Development: (a) Action of running water 10.1 Describe water as an energy system; 10.2 Explain Erosion processes of running water; 10.3 Explain the transportional processes/effects of running water in landform development; 10.4 Discuss the erosion and depositional features of rivers; 10.5 Describe and classify river basins into different types; 10.6 Name major river basins in Nigeria; 10.7 Explain the importance to community and human development. 	 i. Water as an energy system Slope or gradient Shape of valley Volume of river Size of materials carried ii. Processes of river erosion: Corrosion Attrition Hydraulic action iii. Transportation processes Suspension Saltation Solution iv. Erosional features of rivers Gorges V-shapes valleys Rivers captures Waterfall Meanders 	 a. Carry out field work to observe effects of running water b. Use diagrams and sketch to explain corrosion, attrition, hydraulic action of rivers c. Explain Erosion and transportation processes Erosion and depositional features of rivers

S/N	TOPICS AND OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
		 Rapid and cataracts V. Depositional features: Ox-bow lake Flood plains delta 	
11.0	 Action of winds 11.1 Identify and describe the processes of wind erosion; 11.2 Explain the features of and mode of formation of landforms; inselberg Rock pedestal Zeugen Messa and butto, etc; 11.3 Describe the features of wind deposition. 	 i. Processes of wind erosion Abrasion Attrition Deflation ii. Features and modes of formation of: Inselberg Rock pedestal Zeugen Messa and butto, etc; Features and modes of formations of: Barchans Loess Self dunes, etc. 	 a. Use pictures, films models and sketches to: Explain the processes of abrasion, attrition and deflation b. Describe the features and formation of the following landforms: ³/₄ inselberg ³/₄ rock pedestal ³/₄ zeugen ³/₄ messa and butto, etc. c. Discuss the sequential formation and features of: Barchans Loess Self dune, etc
12.0	 (c) Glacial Action 12.1 Describe the characteristics features of glacial actions in: highland, and lowland areas; 12.2 Explain the modes of formation of these features and landforms 12.3 Locate the countries/regions where features are found; 12.4 State the economic importance of the features/landforms 	 i. Glacial features in highland areas: Cirque Artes Tan, etc ii. Glacial features in lowland area: Roche mountains Crag and trail, etc iii. Economic importance of Glacial features 	 a. Usesfilms, picturs and modesto: Explain the characteristics features of landforms in glacial region Using the world map, locate the countries/regions where these landforms are found. Explain their modes of formation and economic importance Make annotated diagrams of the landforms.

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
13.0	 Action of Waves 13.1 Distinguish between waves tides and currents; 13.2 Explain the process of wave erosion; 13.3 Describe the characteristic landforms/features of coastal erosion and deposition. 	 i. Waves/tides/currents (definition and characteristics ii. Erosional processes: Corrosion Attrition Solution Hydraulic action iii. Erosional features Cape Bay Caves Staves, etc iv. Coastal deposition Beaches Spit Bar Marine dunes 	 a. Take a field work to observe features of wave erosion and deposition. b. Use pictures, films and models to: Explain the meaning and characteristics of waves, tide and currents Explain erosional processes and coastal landforms Identify and describe features of coastal erosion and deposition C. Make annotated diagrams for landforms
14.0	Earths Internal process (a) Earthquakes 14.1 Define earthquakes; 14.2 Explain the origin and focus of earthquakes; 14.3 Explain its causes; 14.4 Locate earthquake prone regions on world map; 14.5 Describe the effects of earthquakes on the environment	 i. Origin/focus: Tremor Epicentre waves Shock waves ii. Causes of earthquakes: Faults from collision of tectonic plates Sudden release of stress iii. Regions of earthquake occurrence: Tonga region Chile-Argentina region Chile-Argentina region Fiji Islands Mid-Atlantic ridge Some Asian Countries iv. Effects of earthquakes: Displacement of earth crust Raising and lowering of coastal rocks 	 a. Use documentary films to explain Meaning, origin/focus of earthquakes Causes of earthquakes Earthquake regions and their characteristic features Effects of earthquakes on earths environment. b. Supervise how to insert earthquake regions on a world map.

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
		 Raising and lowering of ocean floor Landslides and cracks, etc 	
15.0	 (b) Vulcanicity 15.1 Identify vulcanicity; 15.2 Describe vulcanicity processes; 15.3 Locate volcanic regions on a world map; 15.4 State the characteristics features of landforms in the regions. 	 Meaning of vulcanicity Processes; Crustal disturbance Intrusion Extrusion Eruption Emission, etc Regions of occurrence V. Characteristic features of landforms in the regions Instruction features/landforms: Silk Dyke Batholiths accoliths Opoliths Phacoliths Extension features: Composite cone Java domes or shield Shield volcanoes Ash and cinder cones 	 a. Use documentary films to explain: Vulcanicity processes Volcanic regions of the world Intrusive features/land forms in volcanic regions Extrusive features/Landforms in volcanic regions Effects of vulcanity Insert volcanic regions on a world map.
16.0	 (c) Karst (Limestone) Topography 16.1 identify Karst regions in Nigeria and the world; 16.2 State the characteristics of Karst topography 16.3 Identify and describe the surface and underground features of karst regions 16.4 Explain the importance of karst region to man 	 i. Karsttopographyregion Characteristics of karst topography: Solubility Absence of luxuriant vegetation cover Absence of drainage Joints and rugged topography Dry surface valley, etc ii. Features of karst regions Surface features: Grikes Clints Swallow holes 	 a. Take a field tour experience of Karst regions (where possible). b. Use simple experiments, pictures, maps and documentaries to: Explain the characterstics of karst topography Locate the karst regions around the world especially in Nigeria Explain surface and underground features of karst region

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
		Sink holes	- Explain the importance of
		Doline	karst topography
		Uvalo	c. Make annotated
		Pojes	diagrams of karst
		 Underground features: 	regions.
		Caves and caverns	
		Limestone gorge	
		Resurgence or spring	
		Stalacties	
		Stalagmites	
		Pillar	
		iii. Importance of Karst topography	
17.0	Depudational processes	i Meaning of depudation	a Usenictures films and
17.0	17 1 Explain the concept of	nrocesses	models to explain the
	denudation:	ii Types of depudation processes	meaning of
	17.2 Identify denudational	Weathering	denudation
	processes:	Mass movement etc	b Take a field tour to
	17.3 Explain the factors	iii Eactors affecting dendation:	denudation sites
	affecting depudation	 Poliof 	
			- Denudation
		Uman activities etc	processes
		• Human activities, etc	- Factors affecting
			denudation
			Supervise field work.
18.0	Weathering	i. Major concept:	a. A take a field workto
	18.1 Define weathering;	 Disintegration (expansion and 	observe weathering
	18.2 Identifytypes of	contraction)	effects (where
	weathering;	 Decomposition (oxidation and 	possible).
	18.3 Explain the process of	carbonation)	b. Use pictures, films and
	each type	Weathered debris.etc	models to:
	18.4 Explain the effects of	ii. Types of weathering:	Explain the
	weathering on the	Physical (mechanical	meaning of
	environment	weathering):	weathering.
		* Temperature changes	c. Supervise field work on
		Wetting and drying	weathering processes
		 Frost action, etc 	
		 Chemical weathering: 	
	N	Solution	
		Oxidation	
		Hydrolisis	
		Hydration	
		Carbonation	
		 Biological weathering 	
		Plants and animals/burrowing	
		Human activities	

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
19.0	(b) Mass movements	i. Meaning of mass movements	a. Take a field work
	19.1 Define the concept of mass	ii. Types of mass movements:	(where possible)
	movements	 Slow (e.g. creep, soil flow) 	to observe mass
	19.2 Identify types of mass movements	- Rapid mass movements (e.g.	movements.
	19.3 Describe the processes involved in	landslide, rock	b. Show
	the different types of mass	avalanche/rockfall, etc	documentary films
	movement,	iii. Massmovementprocesses:	on mass
	19.4 Explain the effect of mass	 Soil creep: 	movements.
	movement	 Weathered materials 	c. Use pictures,
		- Gentle slope	sketches and
		- Water lubricates	documentaries to:
		 Heating and cooling 	 Explaintypesofmass
		 Wetting and drying 	movements
		 Soil flow: 	 Explain mass
		 Rock fragments 	movements processes
		- Down slope	d. Explain the effects
		- Freezing	of mass
		- Thawing	movements on the
		 Landslides 	environment and
		- Souse rock	human activities
		- Steep slope 🧹 💛	
		 Water lubricates 	
		Rock fall	
		Steep cliff, etc	
		iv. Effects of mass movements	
	ENVIRONMENT AND ITS RESOURCES		
20.0	The Environment	i. Meaning of environment	a. Conduct outdoor
	20.1 Explain the meaning of the	Types of environment	activities to observe
	environment,	Physical	the environment
	20.2 Identify the different types of	Social	b. Explain the following:
	environment;	- Cultural	- Classification of mans
	20.3 Describe the components of the	iii. Domains of the	environment as
	different environment;	environment	physical, social and
	20.4 Classify the different environments	- Atmosphere	cultural
	and their components into three	- Lithosphere	- The components of the
	major domains	- Biosphere	different types of
	20.5 Explain the importance of the	- Hydrosphere	environment
	environment to life	IV. Importance of the	- Recognize and re-
		environment	group components of
			theenvironmentinto
			three major domains
			(atmosphere,
			lithosphere and
			biosphere)

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/MARKS
21.0	Weather 21.1 Explain the concept of weather 21.2 Identify weather elements; 21.3 List the instruments for measuring weather 21.4 Describe the attributes of weather 21.5 Make accurate measurement of weather elements 21.6 State the importance of weather on physical and human activities	 (i) Meaning of weather (ii) Weather elements (iii) Weather records Temperature Rainfall Humidity Wind direction and speed etc (iv) Attributes Variability Aerial extent Duration etc (v) Importance of weather 	 a. Explain the concept of weather b. Explain the following: Weather elements Attitudes of weather Importance of weather on physical and human activities c. Demonstrate how to make measurements and keep weather records
22.0	 Climate 1 22.1 Explain the meaning of climate 22.2 List major elements of climate 22.3 Distinguish between climate and weather; 22.4 Locate the major climatic regions on the map of the world 22.5 Explain the influence of attitude, latitude, wind, ocean currents, etc on climate 22.6 State the importance of climate on physical and human activities 	 Meaning of climate Elements of climate Attributes Variability Aerial extent Duration, etc iv. Factors affecting climate Altitude Latitude Slope Ocean currents Cloud cover Winds, etc V. Climate regions of the world Importance of climate on physical and human activities 	 a. Explain the concept of climate b. Explain the following Climate elements Attributes of climate Similarities and differences between weather and climatic; Factors affecting climate; Major climatic regions; importance of climate on physical and human activities
23.0	 Climate II 23.1 Identify climatic factors; 23.2 Explain the effects of these factors on weather and climate; 23.3 Identify and explain the characteristics of major climatic types; 23.4 Locate and describe the distribution of the climatic types. 	 i. Climatic factors Latitude Attitude and relief Planetary wind and pressure Distance from the sea Ocean currentsetc. 1. Climatic types: Temperature Cold Desert, etc. ii. Characteristics: Temperature, Rainfall etc. iii. Geographic distribution. 	 a. Use the globe, maps, diagram and sketches to explain climatic factors and their influence on weather and climate. b. Usemaps, diagrams and sketches to identify major climatic types. c. Explain the characteristics of major climatic types/their geographic

S/N	TOPICS/OBJECTIVES	CONTENTS	ACT	TIVITIES/REMARKS
			dist	tribution;
			-	Influence of climatic
				types on human
				activities
			d.	Take a study trip to
				meterological station
24.0	Climatic Classification	i. Greek	a.	Use map the globe,
	24.1 Describe the two climatic major	classification:		sketches and diagrams
	classification systems;	 Tropical (torrid) 		to identify and classify
	24.2 Identify and explain the major and sub-	- Temperature (mid-		climatic regions using
	categories of koppens classification	latitude)		the Greek and
	system;	- Polar (frigid).		Koppen's classification
	24.3 Plot combined temperature and rainfall	ii. Koppens		systems.
	graphs of the classification systems;	classification:	b.	Explain:
	24.4 Group and locate major climates of the	Majorcategories	-	Greek climatic
	world using the two classification	of:		Classification system
	systems;	¾ A- A Tropical	-	Interpretation and
	24.5 State the advantages and disadvantages	3/4 B-A Dry climate		characteristics of
	of the two classification systems.	¾C-AHumid Micro-		Koppen's classification
		thermal		categories
		³ / ₄ D-A Humid Micro-	-	Geographic
		thermal		distribution of climatic
		³ ⁴ E-A Humid Micro-		regions in the
		thermal		classification series
		Sub-categories of:	-	Advantages and
		³ ⁄ ₄ AAAF, AM and AW		disadvantages of each
		³ / ₄ BABS and BW		classification system.
		³ / ₄ CACW, CS and DW	-	Advantages and
		³ / ₄ DADF and DW		disadvantages of each
		³ ⁴ EAET and EF.		classification system.
		iii. Interpretation and	-	Plot
		characteristics of		temperature/rainfall
		the sub-		graphs.
		categories.		
	\sim	iv. Geographical		
		distribution		
	N	v. Advantages of the		
		classification		
		types.		

S/N	TOPICS/OBJECTIVE	CONTENT	ACTIVITIES/REMARKS
25.0	Environmental resources 25.1 Define environmental resources; 25.2 Discuss the different types of environmental resources. 25.3 Give examples of each type, 25.4 Relate human resource quality to size, education, health etc. 25.5 Explain the importance of each type of environmental resources.	 i. Meaning of environment resources ii. Types of environmental resources: Atmospheric resources (e.g. sun, wind, biomass, oxygen and other gases, rain etc), Water resources (eg. Waterfalls, plants, fishes and other water animals, etc), Vegetation (eg. Timber, roots, leaves, barks, latex, fruits, fibres, etc), Mineral resources, Land resources. Human resources. iii. Importance of environmental resources. 	 a. Use pictures, charts and maps to explain the meaning of environmental resources. b. Explain: Types of resources Components of each type of environmental resources Quality of human resources in relation to size, skilled and unskilled human resources, education and health, etc, Uses and importance of environmental resources.
26.0	Renewable and Non-Renewable Resources 26.1 Explain the concept of renewable and non-renewable resources; 26.2 Give example of each type; 26.3 State the advantages of each type	 i. Meaning and examples of renewable and non- renewable resources ii. Advantages and disadvantages of renewable non- renewable resources 	 a. Uses pictures, charts and documentaries to explain the meaning of renewable and non-renewable resources. b. Take a tour to identify renewable and non-renewable resources. c. Explain the advantages and disadvantages of each type.
27.0	 Environmental problems 27.1 Describe environmental problems and their causes; 27.2 Explain their effects on human activities; 27.3 Suggest solutions to the problems 	 i. Types and causes of environmental problems. i. Effects of environmental problems of human activities. ii. Solutions to the problems. 	 a. Carryoutfield work to observe environmental problems and their causes. b. Use pictures and documentaries to explain: Environmental problems and their effects on human activities, Solutions to the problems.

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
28.0	Environmental Conservation	i. Meaning of environmental	a. Use pictures, charts
	28.1 Explain environmental conservation;	conservation.	and maps to explain
	28.2 Discuss the different methods of	ii. Environmental	the meaning of
	environmental conservation;	conservation methods:	environmental
	28.3 Give examples of each type;	 Afforestation and re- 	conservation.
	28.4 Explain the need/importance of	afforestation,	b. Explain
	environmental conservation.	 Cover cropping, 	 Types of
		 Improved farming 	environmental
		techniques,	conservation.
		- Environmental education,	- Needs and importance
		- Recycling,	of environmental
		- Legislation on waste	conservation.
		disposal.	
		iii. Importance of	
		environmental	
		conservation.	
29.0	Climatic change	i. Causes of climatic change:	a. Use
	29.1 Explain the causes of climatic change.	- Green-house effect	documentaries,
	29.2 Discuss the consequences of climatic	 Ozone layer depletion 	pictures etc, to:
	change.	 Chloro-floro carbon (CFC) 	 Explain climatic
	29.3 Explain measures the Nigerian	gases	changes
	government can take to prevent or	- Carbon emission	 Explain causes and
	remedy the problems.	- Deforestation	consequences of these
		- Gas flaring, etc	changes on human
		ii. Consequences of	environment
		climatic change:	- Give examples of
		- Melting of ice caps	observed
			consequences of
	C	- High raintail	climatic changes in
		- Submergence of coastal	towns in Nigeria e.g
		Cilles	
		- Desertification	
		- Calicel and eye catalacts	Lagus anu
		- Enlegence of some plants	Desert encroachment
		and animals etc	in some cities in
		- Remedies	Northern Nigeria etc
		- Reformation	- Identify preventive
	9	- Zero carbon emission	measures/remedies to
		- Population reduction	the problems
		- Introduce gas driven cars	
		- Stop use of aerosols	
		- Legislation, etc	

S/N	TOPIC/OBJECTIVES		CONTENTS		ACTIVITIES
	REGIONAL GEOGRAPHY OF NIGERIA				
30.0	 Nigeria: location and position 30.1 Describe the location and position of Nigeria with reference to her latitude. Longtitude, boundaries and neighbours. 30.2 Describe Nigeria by size and distance. 30.3 Locate states, local government areas and their headquarters on the political map of Nigeria. 	i. - - 11. - - -	Location and position: Latitude Longitude Boundaries and neighbours. Size and distance North to South East to West. Political divisions: States and their capitals. Local governments and their headquarters.	a. b. c. d.	Usemaps to describe the location and position of Nigeria with respect to her neighbours. (i) Describe the location of states and their capitals with reference to latitude and longitude. Determine the size, area and landmass of Nigeria Draw the political map of Nigeria and insert the states and their headquarters on the map.
31.0	 Physical setting of Nigeria 31.2 Identify the major highlands; rivers/drainage systems in Nigeria; 31.2 Describe the climatic variations in the country; 31.3 locate and explain the vegetation belts of Nigeria; 31.4 Explain the importance and limitations of Nigerians physical setting. 	Ş	i. Relief: Highlands and lowlands Draining (major rivers, river basins, etc). ii. Climate (the season). iii. Vegetation belts. (Savannah forest b belts).		 a. Organise field work to observe the setting (relief, vegetation, etc) of the locality). b. Explain the following: Nigerians climate, characteristics of different seasons, etc, Vegetation belts and their characteristics, Merits and limitations of Nigerians physical setting (relief, climate, vegetation, etc). c. Draw maps showing relief, climate and vegetation belts of Nigeria.

S/N	TOPICS/OBJECTIVE	CONTENT	ACTIVITIES/REMARKS
32.0	 Population of Nigeria 32.1 Explain the increase in growth of Nigerians population. 32.2 Account for the structure and distribution pattern of the population. 32.3 Describe the influence of HIV/AIDS and Ebola on population quality. 32.4 Explain population movement patterns and associated problems. 	 i. Population Size Distribution and structure ii. Population quality iii. Population movement iv. Population data 	 a. Observe population structure and distribution of the school and local environment. b. Explain the following: Population, size, distribution and structure; Population quality, factors influencing the quality of Nigerians population.
33.0	Resources of Nigeria 33.1 Identify and classify the different resources found in Nigeria. 33.2 Locate where these resources are found on the map. 33.3 Explain the importance of these resources to Nigeria.	 i. Mineral resources Petroleum Gas Coal Tin/columbite Iron ore Lime stone. ii. Power: Petroleum Gas Coal Hydro Electric power (HEP) Solar Energy. iii. Water Resources (rivers, lakes, dams, sea, underground water). iv. Vegetation (tree crops, food crops, cash crops, timber, etc). v. Vegetation: Forests Savannah Biosphere vi. Importance of the Environment. 	 a. Identify the various minerals in Nigeria. b. Take a tour to observe local mining quarry sites etc. Observe the vegetation and water resources within and around the community. c. Use a map to locate where Nigerians major resources are found. Discuss the importance of these resources to Nigerians economy and development.

S/N	TOPICS/SUBJECTS	CONTENTS	ACTIVITIES/REMARKS
34.0	Agriculture	i. Types of Agricultural practices:	a. Carryout a field
	34.1 Describe major agricultural	- Subsistence	work to observe
	practices in Nigeria.	- Mechanised	agricultural
	34.2 Identify major cash and	- Pastoral farming	practices
	food crops of Nigeria.	- Crop rotation	b. Use maps, pictures,
	34.3 Locate where these crops	 Mixed farming 	documentaries,
	are found on the map.	- Shifting cultivation.	films and slides, etc
	34.4 Explain the importance of	ii. Food and cash crops.	to explain
	agriculture;	iii. Importance of Agriculture.	 Types of
	34.5 Discuss the problems of	iv. Problems of Agriculture in	Agricultural
	agriculture in Nigeria	Nigeria	practices, Nigeria's
	34.6 Suggest solutions to the		major food and cash
	problems.		 crops, and
			importance of
			- Agriculture
			Agricultural
			problems in
			c. Nigeria.
			Draw the map of
			Nigeria and locate
			the major
			agricultural
		• • • •	produce on the
			map.
35.0	Transport and communication in	i. Transportation	a. Use pictures and
	Nigeria	ii. (a) Modes of transportation:	documentary
	(a) I ransportation in	Road	films to help
	Nigeria	• Rail	identify and
	35.1 Identify the major modes of	• Water	describe major
	transportation in Nigeria;	• Air	modes of
	35.2 Draw maps of Nigeria	Pipeline	transportation in
	showing road and rail	Aerial ropeways	Nigeria.
	transportation systems;	Human and animal	b. Explain:
	35.3 Discuss the advantages and	porterage	- Advantages and
	disadvantages of the	i. Advantages and	disadvantagesoftne
	different transportation	disadvantage of	transportation
	modes;	the different	Transportation
	35.4 Explain the problems of	transportation	
	25 5 Suggest solutions to	modes	
	transportation problems	ii. Problems of	- IIIIIUEIICE OI
		transportation	human activition
		iii. Influence of	
		transportation on	road and roll
		humanactivities	transportation
			eveteme in
			Nigeria
			inigena.

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
36.0	(b) Communication in Nigeria	2. Communication in Nigeria	a. Use pictures and
	36.1 Identify the major communication	i. Communication Networks:	documentary films to
	networks/elements in Nigeria.	- Telecommunication (e.g.	help identify and
	36.2 Discuss the advantages and	telephone services, cellular	describe major
	disadvantages of the different	phones, voice mails etc.)	communication
	communication elements/networks.	- Post services	elements in Nigeria.
	36.3 Explain the problems to	- Television Radio	b. Take a tour to
	communication in Nigeria.	- Newspapers	communication
	36.4 Suggest solutions to communications	- Internet, etc	industries in the
	problems in Nigeria.	ii. Advantages and	community.
		disadvantages of the	c. Explain
		different communication	- Advantages and
		elements/networks.	disadvantages of
		iii. Problems of	communication
		communication in Nigeria.	systems,
		iv. Importance of	- Communication
		communication on human	problems in Nigeria,
		activities.	- Influence of
			communication on
			human activities
37.0	Manufacturing industries in Nigeria	i. Definition of industry	a. Take a tour of
	37.1 Define manufacturingindustries;	ii. Types of industry	manufacturing
	37.2 Classify the industries as primary,	- Primary	industries in the
	secondary, tertiary and quaternary	- Secondary	locality
	industries;	- Tertiary	b. Use pictures,
	37.3 Locate the major industrial zones on a	- Quarternary	films,
	map of Nigeria;	iii. Major industrial zones	documentaries,
	37.5 Identify problems of manufacturing	iv. Factors affecting	maps etc to
	industries;	location of industries	explain:
	37.6 Suggest solution to industrial	v. Problems and solution	- Types of
		vi. Importance of	manufacturing
		manufacturing	Industries
		industries in Nigeria	
			Zones Eactors affecting
			manufacturing
			industries
38.0	Commercial Activities in Nigeria	i Major commercial	a Take a field work
00.0	38 1 Identify major commercial activities in	activities	to identify
	Nigeria	- Trade	commercial
	38.2 Describe the major commercial areas	Local national	activities in the
	in Nigeria:	International	locality.
	38.3 Locate the major commercial zones on	Stock exchange	b. Use pictures.
	a map of Nigeria;	Capital Market	films,
	38.4 Discuss the importance of commercial	EOREX	documentaries,
	activities;	- Transportation	maps etc to
	38.5 Explain the importance of the stock	- Communication	explain:
	exchange and capital Market to the	ii. Maior commercial areas	- Nigerians trades,
	commercial activities in Nigeria	in Nigeria:	stock exchange,
	-	iii. Importance of	capital market,
		commercial activities	FOREX etc
			- Major commercial
			zones
			- Importance of
			commercial activities.

S/N	TOPICS/OBJECTIVES	CONTENTS	AC	ACTIVITIES/REMARKS	
39.0	 ECOWAS 39.1 State the meaning of the acronym (ECOWAS). 39.2 Identify ECOWAS member states. 39.3 Explain the purpose for which ECOWAS was formed. 39.4 State the advantage and disadvantages of ECOWAS. 39.5 Suggest solutions to ECOWAS problems. 	 i. Meaning of ECOWAS ii. Member countries iii. Purpose/mandate of ECOWAS iv. Advantages and disadvantages v. Solutions to ECOWAS problems 	a. b. - c. d.	Explain the meaning of ECOWAS Obtain information from the internet on: ECOWAS member states Purpose and mandate, merits and problems of ECOWAS Explain solutions to ECOWAS. Visit internet café for information on ECOWAS	
			۵	ECOWAS.	
			С.	states on a map	
	MAP READING AND INTERPRETATION				
40.0	Basic concept in Map Reading	i. Maps	a.	Show differenttypes	
	40.1 Define maps;	- Definition		of maps.	
	40.2 Identify with examples the differentiate	- Types	b.	Identify maps and sort	
	between map and plan	- Examples		them into different	
	40.3 Differentiate between map and plan	- USES	_	Classes/types.	
	40.4 State the uses of maps, 40.5 Identify and describe types of scales and		С. -	Meaning types and	
	their attributes:	- Types		uses of maps:	
	40.6 State the merits and demerits of the various	Attributes	-	Scales, types,	
	types of scales;	- Merits and demerits		attributes of different	
	40.7 Convert from scale to actual measurements.	of each type		types of scales, merits	
		- Scale conversion		anddemeritsofeach	
				type.	
			-	measurements of	
				distance in scale	
			_	Convert scale	
				measurements to	
				actual measurements.	

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
41.0	Map Distances	i. Measurementand	a. Bring and identify
	41.1 Identify units for expressing map distance;	units.	differenttypesofmap
	41.2 Measure distance on a map and convert it	ii. Conversion	reading.
	to actual distance;	- Conversion from	b. Identify units uses in
	41.3 Convert actual distance to a map	map distance to	expressing distances in
		actual distance.	the map.
		- Conversion of actual	c. Determine actual
		distance to map	distances of physical
		distance	settings (e.g. Length of
			rivers, distance between
			two cities measures as
			crow files distances or
			curvilinear distances,
			etc) from map distances.
			d. Convert measurement
			ofactualdistancesto
			map distances.
42.0	Map Reduction and Enlargement	i. Map enlargement 🥂	🔪 a. Provide
	42.1 Reduce a map to a given proportion.	and reduction:	topographical maps
	42.2 Enlarge a map to a given proportion.	- Grid/square method	of different types to
	42.3 Plot details on enlarged/reduced maps.	ii. Scales (small/large	reduce/enlarge
	42.4 Compare and contrast scales on an enlarged	scales).	b. Demonstrate map
	map and a reduced map.		reduction and
	42.5 Write new reduced/enlarge maps.		enlargement.
			c. Help and guide how
		0,2	to:
			- Enlarge/reduce maps.
			- Compare details e.g.
			numbers, scales, etc on
			enlarged and reduced
42.0		i Contourlinee	maps.
43.0	Interpretation of physical and cultural features	i. Contour lines.	a. Use maps to
	43.1 Define contour lines;	II. Physical realures:	
	45.2 Identity and interpret physical readures as	- Ridges	b Domonstrate how
	43.3 Identify and interpret cultural features on	- Spuis Valleys	b. Demonstrate now
	mans:	- Valleys	interpret cultural
	13.4 Explain the effects of physical and cultural	- This Plateau	features on a man
	features on human activities	- Rivers etc	c Explain the
		iii Cultural features	relationshin
		- Roads	between physical
		- Settlements	and cultural
		- Schools	features onhuman
		- Communication lines	activities.
		- Markets etc	

S/N	TOPIC/OBJECTIVE	CONTENT	ACTIVITIES/REMARKS
44.0	Direction and bearing 44.1 Identify major cardinal points; 44.2 Describe ways of showing direction; 44.3 Indicate and determine direction and bearing on a map;	 The major cardinal points: True and magnetic north Magnetic variations Angular bearings and compass direction 	 a. Explain the use of angular bearings and compass directions. b. Find directions and bearings of points on the field.
44.0	 Direction and Bearing 44.1 identify major cardinal points; 44.2 Describe ways of showing direction; 44.3 Indicate and determine direction and bearing on a map; 44.4 Use direction and bearing to find the location of points on the field. 	 i. The major cardinal points: True and magnetic north Magnetic variations Angular bearings and compass direction 	 a. Explain the use of angular bearings and compass directions. b. Find directions and bearings of points on the field. c. Locate the major cardinal points (i.e. north, south, east, west, north- east, north-west, south-east, south west) etc. d. Solve problems using examples from topographical maps
45.0	Representation of Relief Forms 45.1 Identify physical features on topographical maps. 45.2 Describe methods of representing these features (relief) on maps. 45.3 Construct topographical maps using the methods to represent physical features in their discrete forms.	i. Physical features (relief); - Valley - Spur - Pass - Knoll - Conical Hills, etc. ii. Methods of representing relief - Contour - Hill shading - Relief colouring - Spot heights - Hachure, etc.	 Display different types of maps. Use maps, models etc to help recognize relief features on maps. Use sand trays and ashes to demonstrate the formation of contour lines. Explain methods of representing relief features on maps.

S/N	TOPIC/OBJECTIVES CON	ITENTS ACTIVITI	ES/REMARKS
	ECONOMIC AND HUMAN GEOGRAPHY		
46.0	Transportation 46.1 Identify and describe different modes of transportation. 46.2 List transportation means associated with each mode. 46.3 Highlight the merits and demerits of each transportation mode/mean; 46.4 Explain the contributions of transportation to economic development. 46.5 Identify transportation problems and suggest ways of solving them.	 i. Modes of transportation: Road Rail Water Air Pipeline Cable, Etc. ii. Transportation means. 1. Merits and demerits of each type. iii. Importance Movement of people and commodities National and international trade Transfer of ideas and technology National integration Transportation problems. 	 a. Use maps diagrams, pictures, etc to identify major transportation types. b. Explain the merits and demerits of each type in terms of: Accessibility Flexibility Flexibility Speed, etc. C. Describe transportation problems and proffer solutions.
47.0	Industry 47.1 Identify and classify industries 47.2 Discuss the major industries in Nigeria and other parts of the world. 47.3 Locate major industries area in Africa, Asia, Europe, America, etc. 47.4 Describe the factors that encouraged these locations. 47.5 Identify and discuss the problems of industrial development in Nigeria and the rest of the world. 47.6 Industrial development in Nigeria and the rest of the world.	 i. Classification of industries: Primary Secondary Tertiary Quatemary Heavy industry Light industry ii. Factors affecting industrial location Raw materials Markets Capital, etc. iii. Problems of industrial location. 	 a. Locate major industrial regions on the world map: Identify and describe major industries of the world Classify the industries Discuss The factors the encouraged spatial differentiation in industrial location. Visit industries in their locality and observe production processes and interview workers in the industry.

S/N	TOPIC/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
48.0	Population	i. World population	a. Use maps,
	48.1 Describe world population in term of	 Size 	diagrams, pictures,
	size, density, structure and distribution	 Distribution patterns 	documentary,
	patterns.	 Density 	films, etc to
	48.2 Account for the variation in world	 Structure 	explain world
	population.	II. Factors affecting	population with
		population distribution	respect to size,
		 Climate Daliaf 	density, structure
		Soll	patterns.
		 Waler Minoral ata 	D. Explain the
			climate, relief soil
			water mineral
			population density
			and distribution
			c. Make sketches of
			world population
			distribution on a
			map.
49.0	Settlements	i. Types of	a. Use maps and
	49.1 Identify types of settlements;	settlements:	sketches to
	49.2 Describe each settlement type in terms	- Urban	identify human
	of population, economy, administration, etc;	- Rural	settlements
	49.3 Explain the influence of soil weather,	ii. Characteristics of	b. Lake a tour on
	etc. On settlement location;		field work to
	49.4 Identity and explain the major	Benulation	
	Aq 5 Explain the factors responsible for the	- Fopulation	natterns in the
	development of each patterns	- Administration etc	locality
		iii. Factors of	c. Explain:
		settlement	- Settlement types
		location (soil,	- Characteristics of
		weather, etc).	urban and rural
		iv. Settlement	settlement
		patterns:	location
		- Nuclear	- Settlement
		- Dispersed (scattered)	patterns and their
		- Linear	developmental
		- Isolated	factors.
		- Conurbation	
		V. Factors of	
		development of	
		each pattern.	

S/N	TOPICS/OBJECTIVES	CONTENTS	ACTIVITIES/REMARKS
50.0	Settlement interaction 501 Discuss types of settlements interactions; 50.2 Explain settlements interaction patterns with respect to migration.	i. Types of interaction: - Commercial - Cultural - Administrative, etc ii. Interaction patterns: - Urban-rural - Urban-urban - Rural-rural, etc	 a. Carry out a field work to observe settlement interaction patterns in the locality b. Use diagrams, sketchesand flowcharts to explain: Types of interactions Settlement migration Factors responsible for migration of settlements
51.0	Geo-political Issues (land Reclamation) 51.1 Explain the concept of land reclamation. 51.2 Describe the various methods for land reclamation. 51.3 Explain the importance of land reclamation.	 i. Meaning ofland reclamation. ii. Reclamation methods: Afforestation Construction of barriers Sand filling Construction of drainages Control oferosion head, etc. iii. Importance of land reclamation. 	 a. Use photographs of reclamation sites to explain the concept of land reclamation. b. Take a tour to land reclamation sites. c. Explain Methods of land Reclamation organize and supervise community development project on reclamation
52.0	Trade 52.1 Define trade; 52.3 Explain the different types of trade; 52.3 Explain why trade occurs; 52.4 Explain the importance of trade.	i. Definition of trade ii. Types of trade: - National International iii. Reasons for trade iv. Importance of trade: - Social - Political - Economic, etc	 a. Visit places where trading of different types take place. b. Use documentaries, illustrations, pictures and photographs to: Explain the meaning of trade Identify types of trade Explain the economic, social and political importance of trade

S/N	TOPIC/OBJECTIVES	CONTENT	ACTIVITIES/REMARKS	
53.0	Tourism 53.1 Define tourism. 53.2 Identify and locate tourist centres on a map. 53.3 Explain the importance of tourism. 53.4 Identify problems of tourism and suggest solutions to the problems.	 i. Meaning of tourism ii. Tourist centres iii. Justification for tourism: Leisure Recreation Education Importance of tourism Problems oftourism 	 a. Take a visit to recreational facilities in the locality. b. Use documentaries, illustrations, pictures and photographs to: Explain the meaning of tourism Locate world tourist centres and identify the attractions to the places Explain economic, social and political importance of tourism. The problems and solutions of tourism 	
	INTRODUCTORY GEOGRAPHIC	CINFORMATION SYSTEM		
54.0	Basic concept of GIS 54.1 Explain the meaning of GIS and geographic data; 54.2 Describe the sources of geography; 54.3 Distinguish between geographic data and GIS; 54.4 State the importance of geo-referencing; 54.5 State the uses of the GIS and geographic data.	 i. Geographic Information System (GIS) ii. Geographic data: Meaning/Examples Line for river, roads, rails, etc. Points for boreholes, building, settlements, towns, farms, etc. Sources (maps, field work, satellite images, etc.). iii. Importance of georeferencing, geographic data and the GIS. 	 a. Explain the concept of GIS and geographic data. b. Carryout field work to: Collect geographic data, GIS laboratory. c. Participatein group discussion on: Geographic data e.g. maps, data from field work, satellite images etc; Geo-referencing for GIS data. d. Explain the importance of geo-referencing. 	
55.0	Components of GIS 55.1 Identify GIS hardware and software; 55.2 State the uses of the GIS software; 55.3 Distinguish between positional; 55.4 and relational data 55.5 State the rules for GIS;	 i. Hardware components; Digitizer Global positioning system (GPS) Computer Printer Scanner, etc. ii. Software for: 	 a. Do the following Identify GIS hardware Identify the various software and their uses Distinguish between positional 	

S/N	TOPIC/OBJECTIVITIES	CONTENTS	ACTIVITIES/REMARKS
55.6	Identify GIS-human ware.	- Data input	and a relational data
		- Storage	- Use the GIS,
		- Retrieval	hardware e.g.
		- Manipulated	digitizer, GPS,
		iii. Data	Computer, etc
		- Positional	b. Explain:
		- Relational	- Data types
		iv. Procedures: sets of	(positional and
		rules	relational data
		v. People: experts	- GIS
			procedures/sets
			- Human
			GIS their
			training/gualificat
			ion
56.0	GIS Data	i. Data sources:	a. Explain GIS data
	56.1 Identify sources of data in GIS	 Land surveying 	sources
	environment;	Remote sensing	b. Take a field work
	56.2 Collect data for GIS	Map digitizing	to collect
		 Map scanning 	geographic data,
		 Field investigation 	using various
		 Tabular data, etc 	methods
			c. Supervise field
57.0	Satallita Romata Sansing	i Definition of concents:	work
57.0	57.1 Define the following concents, remote	- Remote sensing	a. Explain metolowing with examples:
	sensing satellite and satellite remote	- Satellite	- Remote sensing
	sensing:	Satellite remote sensing	- Satellites e.g
	57.2 Explain the applications of remote	ii. Application of	Nigeria Sat-1,
	sensing;	satellite remote	IKONOS, SPOT
	57.3 Explain the relationship between 💋	sensing:	radar, NICOM
	remote sensing and GIS.	- Foresting	Sat-1, ERS-1 etc
		- Environment	- Satellite remote
		- Agriculture	sensing
	N.	- Telecommunications	b. Take a field work to
		- Transportation	satellite remote
		- Emergency response, etc	sensing site.
	2	III. Kelationship	d Explain applications of
		remotesensing	
		remotesensing	the relationshin
			between GISand
			remote sensing.
L		1	

LIST OF RECOMMENDED TEXTBOOKS IN GEOGRAPHY

- 1) Comprehensive Certificate Geography for Schools and colleges by Iboaya B.A. (2013) (Revised Edition).
- 2) Human Geography by Fellmann, D. et al (2005) (Seventh Edition) New York: McGraw Hill.
- 3) Introduction to Geography by Getis, A. et al (2004) (Ninth Edition) New York: McGraw Hill. Contemporary World Regional Geography by Bradshaw, M. et al (2004), New York: McGraw Hill.
- 4) A Regional Geography of Africa by Okunrotifa, P.O. and Michael, S. (2000) (New Edition), Essex: Longman.
- 5) Map Reading for West Africa by Nimaku, D.A. (2000), Essex: Longman.
- 6) General Geography in Diagrams for West Africa by Bunnet, R.B. and Okunrotifa, P.O. (1999), China: Longman.
- 7) Geography: An Integrated Approach by Waugh, D. (1995), (Second Edition) China: Nelson.
- 8) A New Geography of West Africa by Iloeje N.P. (1991), Hong Kong: Longman.
- 9) Certificate Physical and Human Geography by Adeleke, B.O. and Leong, G.C. (1990) (West African Edition), Ibadan: Oxford.
- 10) A New Geography of Nigeria by lloeje N.P. (1982), (New Edition) Hong Kong: Longman.
- 11) Geographical Region of Nigeria by Udo, R.K. (1970), London: Longman.
- 12) New Secondary Atlas by Collins-Longman (1981), Hong Kong: Sheck Wah Tong.
- 13) Macmillan Secondary School Atlas.

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