GEOGRAPHY

GENERAL OBJECTIVES

The aim of the Unified Tertiary Matriculation Examination (UTME) syllabus in Geography is to prepare the candidates for the Board's examination. It is designed to test their achievement of the course objectives, which are to:

- 1. handle and interpret topographical maps, photographs, statistical data and diagrams and basic field survey;
- 2. demonstrate knowledge of man's physical and human environment and how man lives and earns a living on earth surface with special reference to Nigeria and Africa;
- 3. show understanding of the interrelationship between man and his environment;
- 4. apply geographical concepts, skills and principles to solving problems.
- 5. understand field work techniques and the study of a local area in the field.

DETAILED SYLLABUS

	TOPICS/CONTENTS/NOTES	OBJECTIVES
I.	 PRACTICAL GEOGRAPHY A. Maps B. Scale and measurement distances, areas reduction and enlargement, directions, bearings and gradients with reference to topographical maps. 	 Candidates should be able to: Ai define and identify different types and uses of maps Bi apply the different types of scale to distances and area measurement; ii apply the knowledge of scale to gradients, map reduction and enlargement;
	 C. Map reading and interpretation; drawing of cross profiles, recognition of intervisibility, recognition and description of physical and human features and relationship as depicted on topographical maps. D. Interpretation of statistical data; maps and diagrams 	 Ci illustrate the relief of an area through profile drawing; ii interpret physical and human features from topographical maps. Di Compute quantitative information from statistical data, diagrams and maps, ii. interpret statistical data, diagrams and maps.

TOPICS/CONTENTS/NOTES	OBJECTIVES	
 E. Elementary Surveying; chain and prismatic, open and close traverse, procedure, problems, advantages and disadvantages. F. Geographic Information System (GIS): components, techniques, data sources, applications 	 OBJECTIVES Ei. analyse the principle and procedure of each technique; ii. compare the advantages of the two techniques. Fi. Understand GIS and its uses. ii. Understand the computer system of data capturing and analysis iii. Express locations through the use of latitudes, longitudes, zipcodes etc. iv. Understand land surveying, remote sensing, map digitizing, map scanning as sources of data. v. Explain areas of use: Defense, Agriculture, Rural Development etc. 	
 HYSICAL GEOGRAPHY The earth as a planet The earth in the solar system, rotation and revolution; The shape and size of the earth Latitudes and distances, longitudes and time; 	 vi. Identify problems with GIS in Nigeria. Candidates should be able to: Ai identify the relative positions of the planets in the solar system; ii relate the effects of the rotation to the revolution of the earth; iii provide proof for the shape and size of the earth; iv differentiate between latitudes and longitudes; v relate lines of latitude to calculation of distance; vi relate lines of longitude to calculation of time; 	
 B The Earth Crust i. The structure of the earth (internal and external) Relationships among the four spheres. 	 Bi compare the internal and external components of the earth. ii. understand the existing relationship among atmosphere, biosphere in terms of energy balance and water cycle. 	

TOPICS/CONTENTS/NOTES	OBJECTIVES
 ii. Rocks: Types, characteristics, modes of formation and uses iii. Earth's movement: Tectonic forces iv. Major Landforms: Mountains, Plateaux, Plains, Coastal landforms, karst topography and desert landforms 	 iii. differentiate between major types of rocks and their characteristics; iv. analyse the processes of formation and the resultant features; v. indicate the uses of rocks. vi. differentiate between tensional and compressional forces and the resultant landforms.
 C. Volcanism and Earthquakes landforms associated with volcanic activities landforms of Igneous Rocks origin and types of Volcanoes orome volcanic eruptions and earthquakes. D. Denudation processes in the tropics weathering erosion mass movement deposition 	 vii. identify and describe the major landforms. Ci. explain the processes of volcanic eruptions and earthquakes ii. describe the different landforms associated with both volcanic eruptions and earthquakes. iii. give examples of major volcanic eruptions and earthquakes in the world. Di. identify the agents of denudation ii. associate landforms with each process and agent.
 E. Water Bodies i. Oceans and seas (world distribution, salinity and uses) ii Ocean currents – types, distribution, causes and effects; iii Lakes – types, distribution and uses. iv. Rivers: Action of running water. 	 Ei locate oceans and seas on the globe; ii. examine the characteristics and uses of oceans and seas; iii. classify the types of ocean currents; iv. account for the distribution of ocean currents; v. evaluate the causes and effects of ocean currents; vi. identify the types and location of lakes; vii. indicate the characteristics and uses of lakes viii. identify the landforms of the different stages of a river course.

TOPICS/CONTENTS/NOTES	OBJECTIVES
F. Weather and Climate	Fi. differentiate between weather and climate;
i Concept of weather and climate	ii differentiate between the elements of
ii Elements of weather and climate	weather and climate;
iii Factors controlling weather and climate	iii isolate the factors controlling weather and
(pressure, air mass, altitude, continentality	climate;
and winds)	iv compare Koppen's and Greek's
iv Classification of climate (Greek and	classifications
Koppen).	v identify the major types of climate
v Major climate types (Koppen), their	according to Koppen;
characteristics and distribution.	vii relate the weather instruments to their
vi Measuring and recording weather	uses.
parameters and instruments used.	viii define climate change
vii The basic science of climate change.	ix understand the causes of climate change
	x understand the effects and remedies of
	climate change.
G Vegetation	Gi trace the factors controlling the growth
i Factors controlling growth of plants	of plants;
ii The concept of vegetation e.g. plant	ii analyse the process of vegetation
communities and succession	development;
iii Major types of vegetation, their	iii identify the types, their characteristics
characteristics and distribution,	and distribution;
iv Impact of human activities on vegetation.	iv assess the impact of human activities
	on vegetation;
H Soils	Hi classify soils and their properties;
i. Definition and properties	ii. isolate the factors of formation;
ii. Factors and processes of formation	iii. differentiate between the different types
iii. Soil profiles	of soil horizons and their characteristics;
iv. Major tropical types, their	iv. compare the major tropical soil types and
characteristics, distribution and uses;	uses of soils;
v. Impact of human activities on soils.	v. account for the distribution and uses of
	soils;

TOPICS/CONTENTS/NOTES	OBJECTIVES
 I Environmental Resources; i Types of resources (atmospheric, land, soil, Vegetation and minerals) ii The concept of renewable and non-renewable resources; 	 Ii. interpret the concept of environmental resources; ii. relate environmental resources to their uses; iii. differentiate between the concepts of renewable and non-renewable resources
 J Environmental interaction: i Land ecosystem ii Environmental balance and human interaction 	 Ji. identify the components of land ecosystem; ii. establish the interrelationship within the ecosystem; iii. interpret the concept of environmental balance; iv. analyse the effects of human activities on land ecosystem.
 K Environmental hazards: i. Natural hazards (droughts, earthquakes, volcanic eruptions, flooding) ii. Man-induced (soil erosion, deforestation, pollution, flooding and desertification) iii. Effects, prevention and control of hazards. 	 Ki identify the natural hazards and their causes; ii. relate the human-induced hazards to their causes; iii. locate the major areas where they are common and their effects; iv. recommend possible methods of prevention and control.
L Environmental Conservation	 Li. Explain with examples environmental conservation ii discuss the different methods of environmental conservation. iii Explain the need/importance of environmental conservation

	TOPICS/CONTENTS/NOTES		OBJECTIVES
II. HUMAN GEOGRAPHY		Candidates should be able to:	
A.	Population	Ai.	Define different concepts of population;
i.	World population with particular	ii.	identify the characteristics of
	reference to the Amazon Basin, N.E.		population (growth rates and structure);
	U.S.A., India, Japan and the West	iii.	determine the factors and the patterns of
	Coast of Southern Africa.		population distribution;
ii.	Characteristics – birth and death rates,	iv.	identify the factors and problems of
	ages/sex structure.		population growth;
iii.	Factors and patterns of population	v.	relate the types of migration to their
	distribution;		causes and effects;
iv.	Factors and problems of population	vi.	account for the ways population constitute
	growth.		a resource.
В	Settlement with particular reference to	Bi	differentiate between types of
	Western Europe, the USA, Middle East		settlements; (rural and urban)
	and West Africa:	ii.	classify the patterns and functions of
i.	Types and patterns: rural and urban,		rural settlements;
	dispersed, nucleated and linear;	iii.	classify the patterns and functions of
ii.	Rural settlement: classification, factors		urban settlements;
	of growth and functions;	iv	identify the problems of urban centres;
iii.	Urban settlement - classification, factors	v.	establish the interrelationship between rural
	of growth and functions.		and urban settlements;
iv.	Problems of urban centres		
v.	Interrelationship between rural and urban settlements.		
С	Selected economic activities	Ci.	identify the types of economic activities;
i.	Types of economic activities: primary,	ii.	differentiate between the types of
	secondary, tertiary and quartnary;		economic activities;
ii.	Agriculture: types, system, factors and	iii.	assess Agriculture as an economic
	problems		activity;
iii.	Manufacturing industries, types,	iv.	compare the types of manufacturing
	locational factors, distribution and socio-		industries;
	economic importance and problems of	v.	identify the factors of industrial location;
	industrialization in tropical Africa.	vi.	examine the socio-economic importance
			of manufacturing industries;

roles in commu v. World t	rtation and Communication types, economic development and nication in tropical Africa.	vi	industrialization in tropical Africa;
commu v. World t	nication in tropical Africa.	viii	-
v. World t		viii	differentiate between the types and
	mode featons and nottern of		. underendate set ween the types and
world t	rade-factors and pattern of		means of transportation and
world t	rade, major commodities (origin,		communication;
routes a	and destinations).	ix.	assess the economic importance of
vi. Tourisr	n: definition, importance,		transport;
location	n, problems and solutions.	x.	give reasons for the problems of
			transportation in tropical Africa;
		xi.	relate the factors to the pattern of world
			trade.
		xii.	classify the major commodities of trade
			in terms of their origins, routes and
			destination.
		xiii	. Analyse tourism as an economic
			activity.
		Candid	ates should be able to:
V. REGIONA	L GEOGRAPHY	Ai	describe the location, size and political
A Broad	outline of Nigeria		divisions of Nigeria;
i. Locatio	on, position, size, political division	ii.	identify the ethnic groups and their
(states)	and peoples;		distributions;
ii Physica	l settling: geology, relief,	iii.	relate the components of physical settings to
landfor	m, climate and drainage,		their effects on human activities;
vegetat	ion and soils;	iv.	account for the pattern of population
iii Populat	ion: size, distribution, migration,		distribution;
(types,	problems and effects);	v.	examine the types of migration, their
iv Natural	Resources: types (minerals, soils,		problems and effects;
Water,	vegetation etc) distribution, uses	vi.	identify the types of natural resources
and con	servation.		and their distribution;
		vii.	indicate their uses and conservation;

	TOPICS/CONTENTS/NOTES	OBJECTIVES
		Bi. compare the farming systems practiced in
В.	Economic and Human Geography:	Nigeria;
i.	Agricultural Systems: the major crops produced, problems of agricultural	 ii. identify the crops produced and the problems encountered; iii. identify the types and leasting of the major.
	development in Nigeria.	iii. identify the types and location of the major
ii.	Manufacturing Industries: factors of	manufacturing industries;
	location, types of products, marketing	iv. determine the factors of industrial location
	and problems associated with manufacturing;	and the problems associated with the industries;
iii.	-	v. establish the relationship between
	modes of transportation and	transport and communication;
	communication and their relative	vi. relate the modes of transportation and
	advantages and disadvantages;	communication to their relative
iv.	Trade: Regional and International	advantages and disadvantages;
	Trade, advantages and disadvantages;	vii. classify the major commodities of
v.	Tourism: types, importance, problems	regional and international trade;
	and solutions.	viii. identify reasons for tourism and tourist
		centres;
		ix. account for the problems and solutions
		Ci. State the meaning, purpose and objectives;
C.	ECOWAS	ii. identify and locate the member countries;
i.	Meaning and objectives	iii. evaluate the prospects and problems of the
ii.	Member states	organization.
iii.	Advantages and benefits	
iv.	Disadvantages, problems and solutions.	

Geography

RECOMMENDED TEXTS

Adeleke, B.O. Areola .O. 2002 and Leong, G.C. *Certificate Physical and Human Geography* for Senior Secondary School (West African Edition), Ibadan: Oxford.

Bradshaw, M. et al (2004) Contemporary World Regional Geography, New York: McGraw Hill

Bunet, R.B and Okunrotifa, P.O.(1999) General Geography in Diagrams for West Africa, China: Longman.

Collins New Secondary Atlas, Macmillan

Fellman, D. et al (2005) Introduction to Geography (Seventh Edition) New York: McGraw Hill

Getis, A. et al (2004) Introduction to Geography (Ninth Edition) New York: McGraw Hill

Iloeje, N. P(1999) A New Geography of West Africa, Hong Kong: Longman

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Nimako, D.A. (2000) Map Reading of West Africa, Essex: Longman.

Okunrotifa, P.O. and Michael S. (2000) A Regional Geography of Africa (New Edition), Essex: London.

Udo, R.K(1970) Geographical Regions of Nigeria, London: Longman.

Waugh, D. (1995) Geography an Integrated Approach (Second Edition), China: Nelson

Wisdomline Pass at Once JAMB.

Adegoke M.A (2013), A Comprehensive Text on Physical, Human and Regional Geography.