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. PRA	CTICAL GEOGRAPHY	Candidates should be able to:
A.	Maps	A (i.) define and identify different types and uses of maps
B.	Scale and measurement distances, areas	B(i.) apply the different types of scale to
	reduction and enlargement, directions,	distances and area measurement;
	bearings and gradients with reference to	ii. apply the knowledge of scale to gradients,
	topographical maps.	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. Interpretation of statistical data; maps and diagrams	 C(i.) illustrate the relief of an area through profile drawing; ii. interpret physical and human features from topographical maps. D (i.) Compute quantitative information from statistical data, diagrams and maps, ii. interpret statistical data, diagrams and maps.

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E. Elementary Surveying; chain and prismatic, open and close traverse, procedure, problems, advantages and disadvantages.	E(i.) analyse the principle and procedure of each technique;ii. compare the advantages of the two techniques.
F. Geographic Information System (GIS): components, techniques, data sources, applications	F (i.) 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. vi. Identify problems with GIS in Nigeria.
II. PHYSICAL GEOGRAPHY A The earth as a planet i. The earth in the solar system, rotation and revolution; ii. The shape and size of the earth iii. Latitudes and distances, longitudes and time;	Candidates should be able to: A(i.) 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.	B (i.) compare the internal and external components of the earth. ii. understand the existing relationship among atmosphere, biosphere in terms of energy

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

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

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I Environmental Resources; i. Types of resources (atmospheric, land, soil, Vegetation and minerals) ii. The concept of renewable and nonrenewable resources; J Environmental interaction: i. Land ecosystem ii. Environmental balance and human interaction 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. L Environmental Conservation	I (i.) 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 (i.) 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 (i.) 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 (i.) explain with examples environmental conservation
	conservation ii. discuss the different methods of environmental conservation. iii. explain the need/importance of environmental conservation

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

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industrialization in tropical Africa.	v. identify the factors of industrial location;
iv. Transportation and Communication types,	vi. examine the socio-economic importance
roles in economic development and	of manufacturing industries;
communication in tropical Africa.	vii. give reasons for the problems of
v. World trade-factors and pattern of	industrialization in tropical Africa;
world trade, major commodities (origin,	viii. differentiate between the types and
routes and destinations).	means of transportation and
vi. Tourism: definition, importance,	communication;
location, problems and solutions.	ix. assess the economic importance of
rocation, proofons and solutions.	transport;
	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.
IV. REGIONAL GEOGRAPHY	C
A Broad outline of Nigeria	Candidates should be able to:
i. Location, position, size, political division	A (i.) describe the location, size and political divisions of Nigeria;
(states) and peoples;	ii. identify the ethnic groups and their
ii Physical settings: geology, relief,	distributions;
landform, climate and drainage,	iii. relate the components of physical settings to
vegetation and soils;	their effects on human activities;
iii Population: size, distribution, migration,	iv. account for the pattern of population
(types, problems and effects);	distribution;
iv Natural Resources: types (minerals, soils,	v. examine the types of migration, their
water, vegetation, etc.) distribution, uses	problems and effects;
and conservation.	vi. identify the types of natural resources
	and their distribution;
	vii. indicate their uses and conservation;

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

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.

Iloeje, N.P(1982) A New Geography of Nigeria (New Education), Hong Kong: London.

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.

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