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

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I. A.	PRACTICAL GEOGRAPHY Maps	Candidates should be able to: Ai define and identify different types and uses of maps
В.	Scale and measurement distances, areas reduction and enlargement, directions, bearings and gradients with reference to topographical 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.	Ci illustrate the relief of an area through profile drawing; ii interpret physical and human features from topographical maps.
D.	Interpretation of statistical data; maps and diagrams	 Di 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	Ei. analyse the principle and procedure of
prismatic, open and close traverse, procedure,	each technique; ii. compare the
problems, advantages and disadvantages.	advantages of the two techniques.
F. Geographic Information System (GIS):	Fi. Understand GIS and its uses. ii.
components, techniques, data	Understand the computer system of data
sources, applications	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.
	Candidates should be able to:
II. PHYSICAL GEOGRAPHY	Ai identify the relative positions of the planets
A The earth as a planet	in the solar system; ii relate the effects of the
i. The earth in the solar system,	rotation to the revolution of the earth;
rotation and revolution; ii. The shape	iii provide proof for the shape and size of the
and size of the earth iii. Latitudes and	earth;
distances, longitudes and time;	iv differentiate between latitudes and
	longitudes;
	v relate lines of latitude to calculation of
	distance;
	vi relate lines of longitude to calculation of
	time;
	Bi compare the internal and external
	components of the earth.
B The Earth Crust	ii. understand the existing relationship among
i. The structure of the earth (internal	atmosphere, biosphere in terms of energy
and external) Relationships among the	balance and water cycle.
four spheres.	

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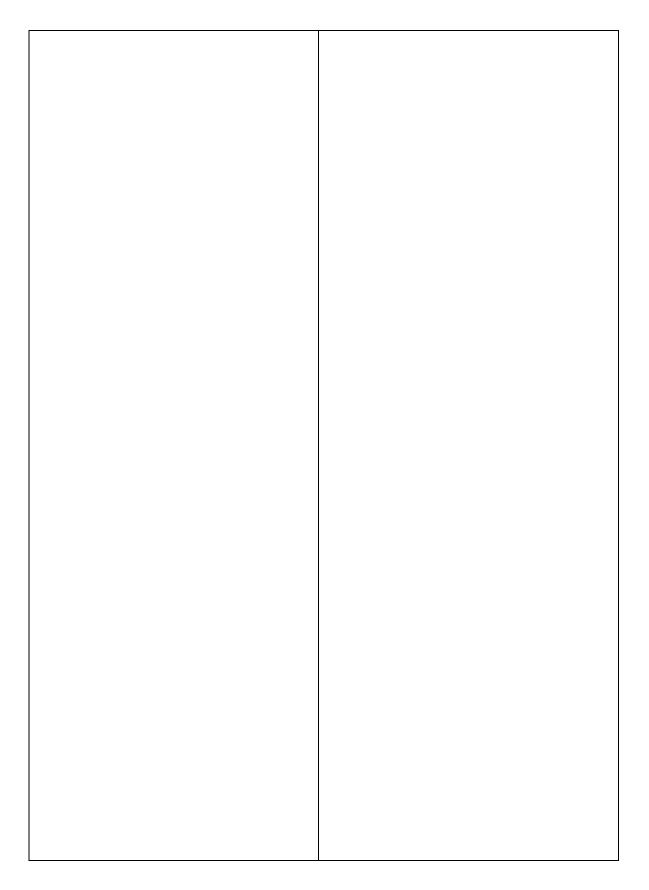
ii. Rocks: Types, characteristics, modes	iii. differentiate between major types of rocks
of formation and uses iii. Earth's	and their characteristics;
movement: Tectonic forces iv. Major	iv. analyse the processes of formation and the
Landforms: Mountains, Plateaux, Plains,	resultant features;
Coastal landforms, karst topography and	v. indicate the uses of rocks.
desert landforms	vi. differentiate between tensional and
	compressional forces and the resultant
	landforms. vii. identify and describe the major
	landforms.
 C. Volcanism and Earthquakes landforms associated with volcanic activities landforms of Igneous Rocks origin and types of Volcanoes some volcanic eruptions and earthquakes. 	 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.
 D. Denudation processes in the tropics weathering mass movement iv. deposition 	Di. identify the agents of denudation ii. associate landforms with each process and agent.
 E. Water Bodies Oceans and seas (world distribution, salinity and uses) Ocean currents – types, distribution, causes and effects; Lakes – types, distribution and uses. 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.

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F. Weather and Climate i Concept of	Fi. differentiate between weather and climate;
weather and climate ii Elements of weather	ii differentiate between the elements of
and climate iii Factors controlling weather	weather and climate; iii isolate the factors
and climate (pressure, air mass, altitude,	controlling weather and climate;
continentality and winds) iv Classification of climate (Greek and	iv compare Koppen's and Greek's
Koppen).	classifications
v Major climate types (Koppen), their	v identify the major types of climate
characteristics and distribution.	according to Koppen; vii relate the weather
	instruments to their uses.
vi Measuring and recording weather	viii define climate change ix
parameters and instruments used. vii The basic	understand the causes of climate change x
science of climate change.	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 iii Major types of vegetation, their characteristics and distribution, iv Impact of human activities on vegetation.	Gi trace the factors controlling the growth of plants; ii analyse the process of vegetation development; iii identify the types, their characteristics and distribution; iv assess the impact of human activities on vegetation;
H Soils 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.	 Hi 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	Ii. interpret the concept of environmental
of resources (atmospheric, land, soil, Vegetation	resources; ii. relate environmental resources
and minerals)	to their uses; iii. differentiate
ii The concept of renewable and non-	between the concepts of renewable and
renewable resources;	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. L Environmental Conservation 	 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. Li. Explain with examples environmental conservation ii discuss the different methods of environmental conservation. iii Explain the need/importance of environmental conservation



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

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

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

Wisdomline Pass at Once JAMB.

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