PAPER 1 – PHYSICAL GEOGRAPHY

WA	TER AND CARBON CYCLES				
	Understand the concept of systems within Geography				
	Apply the systems concept to the water cycle				
	Apply the systems concept to the carbon cycle				
	Describe the global distribution of the Earth's major stores of water				
	Explain and assess the role of different processes in altering the global distribution of				
	the Earth's major water stores				
	Explain the concept and features of drainage basins as an open system				
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	Draw, interpret, and analyse storm hydrographs				
	Evaluate the drainage basin characteristics affecting storm hydrograph dynamics				
	Explain how natural and human actions can change the water cycle over time				
	Describe the global distribution of the Earth's major stores of carbon				
	Explain the processes responsible for moving carbon through the fast carbon cycle				
	Evaluate the impact of natural variations in the carbon cycle over time				
	Explain the concept of the carbon budget				
	Evaluate the impact of the changing carbon cycle on the land, oceans, atmosphere, and				
	climate				
	Evaluate the role of water and carbon in supporting life on earth				
	Explain how feedback loops operating between water and carbon cycles affect climate				
	change and therefore life on Earth				
	climate change				
	CASE STUDY: How water and carbon cycles function within the Amazon Rainforest				
	CASE STUDY: Characteristics and factors affecting flood risk within the River Eden				
	drainage basin				
COA	ASTAL LANDSCAPES AND SYSTEMS				
	Apply the 'systems theory' to the coastal system				
	Identify sources of energy in the coastal system and explain factors affecting these				
	sources				
	Describe the characteristics of high and low energy coastlines				
	Contrast the characteristics of constructive and destructive waves				
	Explain how wave refraction, currents, and tides can affect the impact of wave action and movement of sediment				
	Explain the concept of a sediment cell and the factors affecting the sediment sources				
	within these cells				
	Explain the concept of the sediment budget and explain how the budget can change				

Ш	Describe the main processes of weathering affecting the coastal zone and evaluate
	their varying impact on different coastlines
	Describe the main processes of erosion affecting the coastal zone and evaluate their
	varying impact on different coastlines
	Describe the main processes of mass movement affecting the coastal zone and
	evaluate their varying impact on different coastlines
	Describe how material can be transported within the coastal system and evaluate the
	factors affecting these processes
	Describe the conditions leading to deposition within the coastal system and evaluate
_	the factors affecting this process
	Evaluate the factors affecting coastal landform and landscape development
	Explain the formation of erosional landforms and landscapes, evaluating the factors
_	and processes in their development
	Explain the formation of depositional landforms and landscapes, evaluating the factors
_	and processes in their development
	Explain the formation of mudflat/saltmarshes, evaluating the factors and processes in
_	their development
	Explain the processes of isostatic, eustatic and tectonic sea level change
	Describe the major changes in sea level in the last 10,000 years
	Describe and explain the formation of emergent and submergent coastal features and
	be able to identify evidence for them on maps and photographs
	Explain how processes can create and alter landforms and landscapes over time and
	space
	Describe and explain recent and predicted impacts of climate change on coastal areas
	Explain why we need to protect some coastlines and the role of cost-benefit analysis in deciding this
	Describe and explain traditional approaches to coastal management (hard and soft
	engineering strategies)
	Evaluate the usefulness of traditional coastal management methods, using examples t
	show their effectiveness and sustainability
	Describe, explain, and evaluate more sustainable approaches to coastal management
	(shoreline management plans and integrate coastal zone management)
	CASE STUDY: Characteristics and sustainable management of a coastline at a local scal
	(Holderness Coastline)
	CASE STUDY: Contrasting coastal landscape beyond the UK to illustrate and analyse
	how it presents risks and opportunities for human occupation (Sundarbans)
HA	ZARDS
	The concept of hazard risk and varying perceptions of hazards
	The nature, form, and classification of different hazards
	Models used to represent hazard impacts and management (Park Model and Hazard
	Management Cycle)
	Earth structure and internal energy sources
	Plate tectonic theory of crustal evolution, including convection currents, ridge push,
	and slab pull

Processes and associated landforms of convergent, divergent, and conservative plate
margins Magma plumes and their relationship to plate movement The nature of vulcanicity and its relation to plate tectonics Spatial distribution, magnitude, frequency, regularity and predictability of volcanic events
A range of case studies to illustrate and assess the impacts and responses to recent volcanic events
The nature of seismicity and its relation to plate tectonics Spatial distribution, randomness, magnitude, frequency, regularity, predictability of seismic events
A range of case studies to illustrate and assess the impacts and responses to recent seismic events
The nature of tropical storms and their underlying causes Spatial distribution, magnitude, frequency, regularity, predictability of storm events A range of case studies to illustrate and assess the impacts and responses to recent
tropical storm events Characteristics and causes of wildfires as quasi-natural hazards and the factors affecting their spread and distribution
A range of case studies to illustrate and assess the impacts and responses to recent wildfire events
CASE STUDY: A multi-hazardous environment beyond the UK to illustrate and analyse the nature and risks of the hazards and the resilience, adaptation, mitigation, and management contributing to its continuing human occupation
CASE STUDY: A local scale of a specified place in a hazardous setting to illustrate the physical nature of the hazard and to analyse how the economic, social and political character of its community reflects the presence of the hazard and the community's response to the risk

PAPER 2 – HUMAN GEOGRAPHY

GLOBAL SYSTEMS AND GOVERNANCE					
	Dimensions of globalisation: flows of capital, labour, products, services and				
	information; global marketing; patterns of production, distribution and consumption Factors in globalisation: the development of technologies, systems and relationships, including financial, transport, security, communications, management and information				
	systems and trade agreements				
	Global features and trends in international trade and investment, unequal flows and power dynamics				
	Differential access to markets associated with levels of economic development and				
	trading agreements and its impacts on economic and societal well-being				
	The nature and role of TNCs, including their spatial organisation, production, linkages, trading and marketing patterns.				
	Detailed reference to a specific TNC including its impacts on those countries in which it				
	operates (Apple) A case study of world trade in a food commodity (Coffee)				
	The emergence and developing role of norms, laws and institutions in regulating and				
_	reproducing global systems				
	The concept of the global commons				
	The physical environment of Antarctica and the continent as a fragile ecosystem				
	Threats to Antarctica arising from: climate change, fishing and whaling, the search for mineral resources, tourism and scientific research				
	Critical appraisal of the developing governance of Antarctica. International government				
_	organisations to include UN agencies such as the UNEP and the IWC. The Antarctica				
	Treaty (1959), the Protocol on Environmental Protection to the Antarctic Treaty (1991);				
	IWC Whaling Moratorium (1982) – their purpose, scope and systems for inspection and enforcement				
	The role of NGOs in monitoring threats and enhancing protection of Antarctica				
	Analysis and assessment of the geographical consequences of global governance (Antarctica)				
	The impacts of globalisation to consider the benefits of growth, development,				
	integration, stability against the costs of inequalities, injustice, conflict and				
	environmental impact				
CHANGING PLACES					
	The concept of place and Insider and outsider perspectives on place				
	Categories of place (near/far, experienced/media)				
	Factors contributing to the character of places (endogenous/exogenous)				
	How the demographic, socio-economic and cultural characteristics of places are shaped				

by shifting flows

	The characteristics and impacts of external forces operating at different scales, either	Global patterns of health, mortality and morbidity
	government or decisions of TNCS or international or global institutions	Economic and social development and the epidemiological transition
	How past and present connections, within and beyond localities, shape places and	The relationship between environmental variables e.g. climate, topography (drainage)
	embed them in regional, national, global scales	and incidence of disease
	How humans perceive and form attachments to places and represent the world to	Water and air quality and health
	others, including the way in which place meanings are bound up with different	The global prevalence, distribution, seasonal incidence of one specified biologically
	identities (etc.)	transmitted disease e.g. malaria including impacts of environmental variables on
	How external agencies and community or local groups make attempts to create specific	transmission vectors. Impacts on health and well-being. Management and mitigation
	place-meanings and shape actions and behaviours	strategies
	How places may be represented in different forms in diverse media that give	The global prevalence and distribution of one specified non-communicable disease, e.g
	contrasting images to that presented formally or statistically	a specific type of cancer, coronary heart disease, asthma; its links to physical and socio
	How past and present processes of development influence social and economic	economic environment including impact of lifestyles. Impact on health and well-being.
	characteristics of places and are implicit in present meanings	Management and mitigation strategies
	Know a range of quantitative and qualitative approaches across the theme as a whole	Role of international agencies and NGOs in promoting health and combating disease at
	Use of geospatial data, must be used to investigate and present place characteristics	the global scale
	Qualitative approaches involved in representing place	Factors natural population change: the demographic transition model, key vital rates,
	Analysing critically the impacts of different media on place meanings and perceptions	age-sex composition; cultural controls
	Development of critical perspectives on the data categories and approaches.	Models of natural population change, and their application in contrasting physical and
	CASE STUDY: People's lived experience of a local place in the past and at present and	human settings
	how either changing demographic and cultural characteristics or economic change and	Concept of the demographic dividend
	social inequalities have shaped the place - Brixton	International migration: refugees, asylum seekers and economic migrants;
	CASE STUDY: People's lived experience of a distant place in the past and at present and	environmental and socio-economic causes, processes. Demographic, environmental,
	how either changing demographic and cultural characteristics or economic change and	social, economic, health and political implications of migration
	social inequalities have shaped the place - Detroit	Population growth dynamics: Overpopulation, underpopulation and optimum
		population
РΟ	PULATION AND THE ENVIRONMENT	Population, resources and pollution model: positive and negative feedback
	The environmental context for human population characteristics and change	Perspectives on population growth and implications: Malthusian, neo-Malthusian and
	Key elements in the physical environment: climate, soils, resource distribution including	alternatives such as associated with Boserup and Simon
_	water supply	Health impacts of global environmental change: ozone depletion – skin cancer,
	Key population parameters: distribution, density, numbers, change	cataracts; climate change – thermal stress, emergent and changing distribution of
	Key role of development processes	vector borne diseases, agricultural productivity and nutritional standards
	Global patterns of population numbers, densities and change rates	Prospects for the global population. Projected distributions. Critical appraisal of future
_	Global and regional patterns of food production and consumption	population – environment relationships
_	Agricultural systems and productivity. Relationship with key physical environmental	CASE STUDY: A country/society experiencing specific patterns of overall population
	variables – climate and soils	change - Japan
	Characteristics and distribution of two major climatic types to exemplify relationships	CASE STUDY: Knowledge and understanding of patterns of health and morbidity relate
	between climate and human activities and numbers	to physical and socio-economic characteristics at a local scale - Knowsley
	Climate change as it affects agriculture	
_	Characteristics and distribution of two key zonal soils to exemplify relationships	
_	between soils and human activities, especially agriculture	
	Soil problems and their management as they relate to agriculture: soil erosion,	
_	waterlogging, salinisation, structural deterioration	
	Strategies to ensure food security	
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