50 Questions – the Physical Environment

No.	Question	Answer
1	What is a characteristic and example of	Basalt or granite, formed from molten rock, related to
	igneous rock?	volcanoes, crystallization occurs
2	State one process which helps shape	Glacial erosion and deposition, weathering and climatological
	upland and lowland landscapes.	processes
3	Identify two human activities which create	Agriculture, forestry, settlement and mining
	distinctive landscapes over time.	
4	Name the five processes which shape the	Weathering, mass movement, erosion, transportation and
	coastline?	deposition
5	Name and describe one example of mass	Sliding/slumping/ soil creep - Slumping happens to weaker
	movement.	rocks and sliding happens commonly with soft boulder clay
6	What is a concordant and a discordant	Concordant is the same rock type, discordant alternates
	coastline.	between hard and soft rock
7	Name three erosional landforms created	Headlands, bays, cave, arch, stack, stump, wave cut platform.
	on the coast.	
8	Name three depositional landforms	Beach, bar, spit.
	created on the coast.	
9	Give two examples of hard coastal	Hard - Groynes, sea wall, rock armour, gabions, revetments
	defences and two examples of soft coastal	Soft - Beach nourishment, managed retreat
4.0	defences.	
10	Give two factors that cause an increased	Seasonality, storm frequency, location and prevailing wind.
11	rate of erosion in the UK.	Tracking collection arrangeing and collection
11	What are the four types of river	Traction, saltation, suspension and solution.
12	transportation? How does channel size change from the	Channel gets wider.
12	upper to lower course of a river?	Chainer gets wider.
13	Name two erosional river landforms.	Interlocking spurs, waterfalls, gorges and river cliffs.
14	Name two river landforms where erosion	Meanders and oxbow lakes.
17	and deposition work together in its	ivicanders and oxbow lakes.
	formation.	
15	Name two hard river defences and two soft	Hard - Dams, reservoirs and channelisation, embankments.
	river defences.	Soft - Flood plain zoning and washlands.
16	How does sediment size change from the	Sediment gets smaller due to erosion by attrition.
	upper to lower course of a river	,
17	Define river velocity.	The speed at which a river runs through a channel
18	Name the four processes of river erosion	Abrasion, hydraulic action, solution, attrition
19	What is the quaternary period?	The last 2.6 million years
20	What are the three natural theories on	Milankovitch cycles, solar radiation and
	climate change?	volcanism
21	State three ways in which you can gain	Historical sources, ice cores, preserved pollen and
	evidence of past climate change.	tree ring dating
22	Name two sources of carbon dioxide.	Burning fossil fuels (industry, energy production, car exhausts)
23	Name two sources of methane.	Cows and rice fields
24	State a negative impact of climate change	Melting ice sheets leading to rising sea levels and coastal
	on the environment.	flooding e.g. Maldives
25	State a negative impact of climate change	Warmer drier climates could shorten the growing season and
	on people.	reduce crop yields e.g. Ethiopia
26	What is the perfect temperature for	27°c
	tropical cyclones to form?	

27	What is the centre of a tropical cyclone called?	The eye
28	Name three hazards associated with tropical cyclones	High winds, storm surge, landslides, intense rainfall, coastal flooding
29	How is the strength of a tropical cyclone	Saffir-simpson scale
	measure?	
30	How is heat energy moved from the tropics to the equator?	Ocean currents
31	What are the weather conditions like at the equator?	Hot and wet due to rising air forming rainfall, pressure is low.
32	What are the weather conditions like at the poles?	Cold and dry due to descending air, pressure is high.
33	Name five factors influencing the UK climate.	Ocean currents, latitude, distance from the sea, prevailing wind and altitude
34	What is a meteorological drought?	
35	What is a hydrological drought?	A period of time with below average precipitation Where the hydrological cycle receives less rainfall than normal
33	what is a nyurological drought?	so there is less groundwater and less water in reservoirs
36	How do humans cause drought?	Deforestation disrupting the hydrological cycle. Building dams so water flow downstream is disrupted. Over-abstraction of water for agriculture.
37	Name two drought hazards in a developed country e.g. California, USA.	Wildfires, subsidence and contamination of drinking water
38	Name two drought hazards in a developing country e.g. Ethiopia.	Reduction in crop yield, longer journeys to work to find water.
39	What is a biome?	A large scale ecosystem e.g. tropical rainforest
40	What is the name given to tangible things which can be used from an ecosystem e.g. timber, food and medicinal products?	Goods
41	What is the name given to intangible things which give people value from an ecosystem e.g. atmospheric regulation and tourism?	Services
42	Name the four UK terrestrial ecosystems.	Moorlands, heathlands, deciduous woodlands and wetlands
43	Name the three things which control the growing season in an ecosystem.	Temperature, rainfall and sunlight
44	Name the three stores of nutrients in an ecosystem.	Biomass, litter and soil.
45	Give two causes of deforestation in the Tropical rainforest.	Road building, clearance of land for agriculture, illegal logging and mining.
46	Define sustainable development.	Meeting the needs of the present without compromising the needs of future generations.
47	State two sustainable management	Replanting trees, shifting cultivation, ecotourism, national
48	techniques in the TRF. State two ways in which trees are adapted to the TRF.	parks (conservation areas) Drip tip leaves to avoid a built up of moisture and the growth of mould on the leave, tall trees to catch sunlight, buttress roots to anchor the tree, shallow roots to take up nutrients.
49	Why do deciduous trees drop their leaves in autumn?	To reduce transpiration and save water in the cold winter months.
50	Give two causes of deforestation in the deciduous woodland.	Need for farmland, forestry, need for land for roads and settlements caused by population increase.