$1 \times 10 = 10$ 

## 2018

## **GEOGRAPHY**

GGY: 404

## **ENVIRONMENTAL GEOMORPHOLOGY**

Full Marks: 80

Time: 3 Hours

Thefigures in the margin indicates full marks for the questions

Multiple chains questions (Answer all)

L.	Withtiple choice questions (rins) of any	10			
1)	Oceanic Crust is than continental crust				
	a) Less dense				
	b) More dense				
	c) Less hot				
	d) More hot				
2) The Himalaya Mountains were formed because of a					
	a) Hot spot				
	b) Divergent boundary				
	c) Transform boundary				
	d) Convergent boundary				
3)					
	a) Subduction				
	b) Earthquake				
	c) Sea – floor spreading				
	d) Convection				
4)	What can cause a tsunami?				
	a) Landslide				
	b) Underwater earthquake				
	c) Volcanic eruption				
	d) All of the above				

5) What is the mo	st active tsunami area?	2.	Answer in brief (any four)	2x4=8	
a) Pacific ocea	1		1) What is the difference between hazard and ris		
b) Caribbean s	a .		2) Define the term 'Environmental Geomorpholog		
c) Indian ocear			3) What is the engine that drives plate tectonics?	~	
d) North Atlan	c Ocean		4) What is the difference between 'magma' and '	lava'?	
6) What is defore	tation?		5) What is seismograph?		
a) The remova	of trees		6) Differentiate between Regolith and Laterite.		
b) The planting	of trees		7) What is Bio-Chemical weathering?		
c) The type of	nass movement caused by trees	3.	Answer in brief (any four)	5x4=20	
d) When forest	Then forests are covered in mud		1) What are the criteria based on which mass wasting	ng is classified? Explain	
7) Sheet erosion i	caused by		the classification.	•	
a) Wind			2) Explain the concept of Geo system.		
b) Glaciers			3) What is angle of repose? What are the factors		
c) Heavy rains			repose?		
d) Fast running	rivers		4) Briefly explain Climatic characteristics of Trop	ics?	
8) When the rate	f flow of water doubles, the carrying capacity of water		5) What is the special Nature of Tropical Geomor	phology.	
increases by _			6) What are the types of volcanic hazards?		
a) 4 times		4.	Answer in brief (any two)	9x2=18	
b) 32 times			1) Provide two kinds of evidence that support the	theory of plate	
c) 64 times			tectonics	9	
d) 100 times			2) What is Ocean salinity? What are the major co	onstituents of Ocean	
9) How did salt en	l up in our Oceans?		salinity? What is the source of salts found in C	_	
a) Salt was alway	ys present in Oceans		What are excess volatiles?	2+3+2+2	
b) Acid rain fall	into the Ocean. It contains Salts		3) Explain the problem of soil erosion in India wit	h the help of map. 9	
c) Volcanoes let	Volcanoes let out salt when they erupt		4) What is Tropics? Differentiate tropics with temperate region of the		
d) Over million	of years, rains, rivers and streams have washed over		world	.9	
rocks carrying a	way salt into the Ocean.	5.	Answer in brief (any two)	12x2=24	
0) Tropics is domin	Tropics is dominated by		1) Explain with suitable diagrams the measures adopted to mitigate effect		
(a) Biological V	eathering (b) Chemical Weathering		of mass wasting.	12	
(c) Mechanical	Veathering (d) Both (a) & (c)				
	2		3	P,T.O	

- 2) How was the watershed management programme developed in India? What are the projects and programmes adopted by India for successful watershed management? Give examples of local efforts taken for watershed management?
  4+4+4
- 3) "Anthropogenic activity is dominating the tropics leading to the imbalance state of the Tropics". Justify the statement.
- 4) What are the processes for soil formation? Explain the different types of soil profiles and their characters.

  5+7

