3 (Sem-1) GGY M 2

2017

GEOGRAPHY

(Major)

Paper: 1.2

(Basis of Geomorphology)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. Choose and write the correct option: $1 \times 7 = 7$
 - (a) The word Isostasy was first proposed by American geologist
 - (i) Dutton
 - (ii) W. M. Davis
 - (iii) J. A. Steers
 - (iv) Woolman
 - (b) Fire Ring—the volcanic belt is located in
 - (i) Indian Ocean
 - (ii) Atlantic Ocean
 - (iii) Pacific Ocean
 - (iv) Arctic Ocean

(c)	Ganga-Brahmaputra plain of India is	2. Wr	ite very briefly on the following: 2×4=8
	the example of	(a)	Fluvial geomorphology
	(i) erosional plain	μ	
	(ii) depositional plain	(b)	Sial layer
	(iii) piedmont alluvial plain	(c)	Natural levee
	(iv) glacial-depositional plain		The stations
(d)	Deflation basins are found in glacial/	(d)	Eustatism
1-7	aeolian/fluvial/coastal environment.	3. An:	swer any three of the following: 5×3=15
	, , , , , , , , , , , , , , , , , , , ,		
(e)	Jig-saw fitting is seen in between	(a)	Describe the place of geomorphology in
	(i) North America and South America		physical geography. 5
	(ii) South America and Africa	(b)	
	(iii) South America and Australia	•	proposed by Sir George Airy. 5
	(iv) Australia and North America	(c)	Write a short note on the origin of rift
Ø	Seismic waves are recorded with the	•	valley. 5
	help of an instrument known as	(d)	Diagrammatically represent the old
	(i) Barograph	• •	stage of normal cycle of erosion and
	(ii) Climograph		mark thereon the following:
	(iii) Hythergraph		2+1/2+1/2+1/2+1/2+1/2=5
	(iv) Seismograph		(i) Oxbow lake
			(ii) Flood plain
(g)	Which of the following is not a major		(iii) Point bar
	plate?		(iv) Braided bar
	(i) Africa		(v) Open V-shaped valley
	(ii) Eurasia		(vi) Erosional hill
	(iii) Antarctica		
	(iv) Arabian	(e)	Distinguish between alluvial fan and
		•	delta. 5
8A/ 384	(Continued)	8A /384	(Turn Over)

4. Define physical geography. Explain the relationship of physical geography with other branches of earth science. 2+8=10

Or

Write an account on the modern views regarding the internal structure of the earth. 10

5. Give a critical analysis of the tetrahedral theory on the origin of the continents and oceans.

6+4=10

Or

Discuss in detail the features developed by erosional and depositional works of glacier.

5+5=10

6. What do you mean by diastrophic movement? Explain the different diastrophic forces and movements with examples. 2+4+4=10

Or

What is earthquake? Explain the causes and effects of earthquakes on men and earth's surface. 2+4+4=10

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