Name					
Reg. No	•••••				

FIRST SEMESTER B.Sc. DEGREE EXAMINATION JANUARY 2014

It. The doctrine which states that whee (CCSD-QU) uppexists in the earth's surface, equal

Core Course - Geology

GL 1B 01 – EARTH SYSTEMS AND PROCESSES

			× (2013	3 Admission or	nwards)		
Ĺ	-Thre	ee Hours				Maximum: 30 W	eightage
Ī	000	or Hours	Illustrate your answers	s with neat ske	tches wherever ned	essary.	
ı	Ohio	ativo typ	e questions. Answer all			Asteroids.	
-			orrect answer:	netdeith the 4			17.
	1.		mospheric layer which is	s rich in ozone	harles Darwin.		
	-		Ionosphere.	(b)			
			Mesosphere.	(d)	Exosphere.		
	2		oothesis put forward by	Chamberlin a	nd Moulton in 190	4:	III Shor
	-		Tidal hypothesis.		Double star hypo		
			Nebular hypothesis.	(d)	Planetesimal hyp		
	3	3. Which of the following is not the synonym for L-waves?					24
			Rayleigh waves.			Major earthquakes	
			Surface waves.		Love waves.		
	4		k fragments ejected dur	ring volcanic e	ruptions are called		
			Solfataras.	(b)	Caldanaa		
		two the	Pyroclasts.	(d)	Pahoehoe.		
	W:11	up the bl	idy of knowledge is call				
	5.		st abundant oxide consti				
	6		is the largest oc				
	7		If life of is abo				
	8.		is the process of scal				
	0.		is the process of sear				

Answer the following in single word / words:

- 9. The boundary between 'Sial' and 'Sima'.
- 10. The study of Earth's atmosphere and its processes, particularly its upper layers.
- 11. The doctrine which states that wherever equilibrium exists in the earth's surface, equal m must underlie equal surface areas.
- 12. The downslope movement of a mass of regolith or bedrock under the influence of gravity.

 $(12 \times \frac{1}{4} = 3 \text{ weighta})$

II. Short answer type questions. Answer all nine questions:

13. Biosphere.

14. Glaciers.

15. Asteroids.

16. Tidal hypothesis.

17. Epicentre.

18. Richter scale.

19. Orogeny.

20. Geosynclines.

21. Regolith.

 $(9 \times 1 = 9 \text{ weights})$

III. Short essay type questions. Answer any five questions:

- 22. Composition of sea water.
- 23. Nebular hypothesis.
- 24. Radioactive methods of dating.
- 25. Major earthquakes in India.
- 26. Types of volcanoes.
- 27. Chemical weathering.
- 28. Causes of landslides.

 $(5 \times 2 = 10 \text{ weight})$

IV. Essay type questions. Answer any two questions:

- 29. Give an account of the structure of the earth's atmosphere.
- 30. Describe the origin, distribution and environmental significance of earthquakes. Add a on the prediction of earthquakes.
- 31. Describe the various types of physical and biological weathering of rocks.

 $(2 \times 4 = 8 \text{ weight})$