## UNIVERSITY OF COLOMBO –SRI LANKA

## **Faculty of Arts**

## Special Degree/ Study Stream Examination in Arts (Geography) – Part II First Semester End Examination -2020

## GYG 3150- PAST CLIMATE AND CLIMATE CHANGE

Time: Two Hours (02)

Answ	er <b>Three</b> ( <b>03</b> ) Questions Only		
1.	(i) What is meant by "Paleoclimatology"?	(02 Marks)	
	(ii) Briefly describe one of the extra-terrestrial factors that were put forward for		
	identifying the past climate of the Earth.	(04 Marks)	
	(iii) Explain how mountain building affected the changes in the past climate of the		
	Earth.	(06 Marks)	
	(iv) Do you agree with the view that the process of mountain buil	ding contributed to	
	global level climate changes in the geological past of the Earth? Discuss your answer.		
		(08 Marks)	
2.	<ul><li>(i) What do you mean by a "Deglaciation period"?</li><li>(ii) State Four evidence that put forward for studying the past climater.</li></ul>	(02 Marks) ate of the Earth	
		(04 Marks)	
	(iii) Selecting <b>one</b> of the evidence that you have mentioned in 2(ii) can be used to identify the past climate of the Earth.	, explain how it	
	(iv) Examine the constraints that can be arisen when studying the parth.	past climate of the	
3.	(i) What is meant by "Wet deposition of acid rain"?	(02 Marks)	
	(ii) State the meteorological and climatological factors that contribu	ated for	
	intensifying the acid rain problem.	(04 Marks)	

	world.	(06 Marks)	
	(iv) Do you agree with the view that internationally, appropriate measures have been		
	taken for minimizing the acid rain problem? Discuss.	(08 Marks)	
4.	(i) Name <b>Four</b> most reactive ozone-depleting gases.	(02 Marks)	
	(ii) State the relationship between global warming and ozone depleting.	(04 Marks)	
	(iii) Explain the ozone depleting process without polar stratospheric cloud	ds.	
		(06 Marks)	
	(iv) Examine the factors of reporting comparatively less ozone-depleting in the		
	tropical region.	(08 Marks)	
5.	(i) Name <b>Two</b> global climate models (GCMs).	(02 Marks)	
	(ii) What are the major components that need to be considered when dev	eloping	
	climate models?	(04 Marks)	
	(iii) Briefly discuss predicted extreme events in the world. (0	06 Marks)	
	(iv) Examine the expected impact of predicted extreme events in the world.		
		(08 Marks)	
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6.	(i) What are the <b>Three</b> main factors that contribute to sea-level rise?	(02 Marks)	
	(ii) Briefly explain <b>One</b> of the factors that you have mentioned in 6(ii).	(04 Marks)	
	(iii) State the future predictions of the sea level rise.	(06 Marks)	
	(iv) Discuss the future predictions of the impact that can be arisen due to	sea-level	
	rise.	(08 Marks)	

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(iii) Examine with specific examples, the impact of acid rains on forest cover in the