

# UNIVERSITY OF COLOMBO – SRI LANKA

## FACULTY OF ARTS

### SPECIAL DEGREE EXAMINATION IN ARTS (GEOGRAPHY) – PART I

#### FIRST SEMESTER END EXAMINATION – 2019

#### GYG 2126 – ADVANCED GEOMORPHOLOGY

**02 Hours**

Answer **three (03)** questions only.

Two outline maps of the world will be provided

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1.
  - (i). What do you mean by a system? (02 Marks)
  - (ii). What are the main components of a system? (04 Marks)
  - (iii). examine the relationship between the system approach and the Laboratory models. (06 Marks)
  - (iv). Discuss with examples to what extent the system approach relevant for Geomorphological studies. (08 Marks)
  
2.
  - (i). State the difference between Intrusive and Extrusive process of Volcanoes. (02 Marks)
  - (ii). Mark and Name the volcanic regions of the World in the world map provided. (04 Marks)
  - (iii). Classify the volcanoes based on their nature of the eruption. (06 Marks)
  - (iv). Discuss the relationship between volcanic action and the plate movements of the earth crust. (08 Marks)

3. (i). What is "slope stability"? (02 Marks)  
(ii). Describe the stages of slope process? (04 Marks)  
(iii). Draw a diagram to depict the slope system. (06 Marks)  
(iv). Using an appropriate diagram explain how determine the convexity and concavity of a slope profile. (08 Marks)
4. (i). What are the main categories of mass movement? (02 Marks)  
(ii). Select one of those categories and state its subdivisions? (04 Marks)  
(iii). Explain the main characteristics of those subdivisions with the help of appropriate diagrams. (06 Marks)  
(iv). Examine the factors determine the sub divisions of mass movements. (08 Marks)
- 5 (i). Define the "coast". (02 Marks)  
(ii). Draw a diagram to depict the zonations of the coast. (04 Marks)  
(iii). What are the changes taken place of a wave reaching to the shallow water from deep water of the sea? (06 Marks)  
(iv) Explain the formative process of two erosional landforms of the coast using appropriate diagram. (08 Marks)
- 6 (i). Name the major glacial regions of the world. (02 Marks)  
(ii). Mark and name those regions in the world map provided. (04 Marks)  
(iii). State the Landforms created by the continental Glaciers. (06 Marks)  
(iv) Select two dispositional landforms of continental glaciers and explain their main characteristics. (08 Marks)

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