**BIRKBECK COLLEGE**
**(University of London)**

**BSc EXAMINATION**

**SCHOOL OF SCIENCE**

**TECTONIC GEOMORPHOLOGY**

**EASC066H6**

**15 Credits**

**Thursday 14 May 2020 09:30-12:30**

**Time allowed: 3 hours**

## INSTRUCTIONS

Answer question one in section A and TWO questions from the four questions provided in section B, using diagrams and examples to support your answers.

Allow 1 hour for each question.

Use diagrams and examples to illustrate your answers**.**

All questions carry equal marks.

Candidates must NOT bring any supplementary material into the examination.

Calculators are NOT permitted.

## SECTION A

1. Answer **TWO** of the following:

a) Outline how parallax may be used to map and study surface terrains.

b) Define:
   i) Geoid;
   ii) Rock uplift;
   iii) Surface uplift;
   iv) Exhumation;
   v) Denudation.

c) Describe two relative dating methods suited to studies of glacial retreat.

d) Outline Davis's model of landscape evolution.

## SECTION B

**Answer TWO of the following questions:**

2. Explain why denser rocks may occupy higher elevations in a landscape.

3. Discuss the processes and feedbacks that govern the evolution of rifted margin landscapes.

4. Explain how an asymmetric pattern of precipitation can affect the distribution of strain in a convergent mountain belt such as the Southern Alps of New Zealand.

5. Describe how rivers can be used to detect and interpret landscape change.