The Assam Royal Global University, Guwahati

Royal School of Environment and Earth Sciences B.Sc. (Hons.) Geology 1st Semester

Semester End Examination, February 2022

Course Title: Geomorphology Course Code: GEOL162C103

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section - A

1. Attempt all questions. (Maximum word limit 50)

2 x 8

- a. What is Geoid?
- b. What are ocean trenches and where they are formed?
- c. What is meant by Frost Wedging?
- d. Define the two broad categories of mass movement processes.
- e. What are Barchans?
- f. How is a pot hole formed?
- g. What do you understand by sea-level change?
- h. Why lunar surface has huge number of craters?

Section - B

2. Attempt any two of the following:

6 x 2

- a. Explain briefly the concept and application of topographic studies.
- b. Write briefly about the large-scale mountain ranges of earth.
- c. Write a brief note on major morphological features of earth.

3. Attempt any two of the following:

 7×2

- a. Explain the different types of mass wasting processes with the help of suitable diagrams.
- b. Write about the various types of chemical weathering processes with the help of examples.
- c. Write an explanatory note on processes of formation of soil.

4. Attempt any two of the following:

7 x 2

- a. Discuss about the landforms associated with igneous activities.
- b. Explain the different types of aeolian erosional landforms with the help of suitable diagrams.
- c. What is the relation between a river meander and an ox-bow lake? Write about the river depositional landforms formed during the mature stage of a river. 2+5

5. Attempt any one of the following:

14 x 1

- a. Write briefly about the major global sea level changes of earth.
- b. Write a note on the interaction of endogenic and exogenic forces of earth.