

B.Sc. 1st Semester (Honours) Examination, 2021

ENVIRONMENTAL SCIENCE

Course ID: 11811

Course Code: SH/ENV/101/C-1

Course Title: Earth and Earth Surface Processes

Time: 1 hr 15 min.

Full Marks: 25

*The figures in the right hand side margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* questions from the following: 1 × 5= 5

- a) What is Benioff zone?
- b) What is level of compensation?
- c) In which geological period Rajmahal Trap formed?
- d) What is the friction layer?
- e) What is geostrophic wind?
- f) What is lithogenesis?
- g) What do you mean by discontinuity?
- h) Describe two basic events related to Permian era?

2. Answer *any two* questions from the following: 5 × 2=10

- (a) Briefly discuss the formation of Western Ghats mountain systems.
- (b) Briefly discuss the three principal models of isostasy. What is an example of isostasy? 4+1=5
- (c) Write a short note on orogenesis in the light of plate tectonic theory.
- (d) Briefly discuss the physical and optical properties of atmosphere.

3. Answer *any one* question from the following: 10 × 1=10

- (a) Briefly discuss the evolution of landforms in Aeolian and coastal processes.
- (b) Write a short note on rock cycle. What are the different factors affecting the rock erosion?

5+5=10