

U.G. 1st Semester Examination - 2020**ENVIRONMENTAL SCIENCE****[HONOURS]****Course Code : ENVS-H-CC-T-1****(Earth and Earth Surface Processes)**

Full Marks : 40

Time : 2½ Hours

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

1. Answer any **five** of the following: $2 \times 5 = 10$
- What do you mean by Pangaea?
 - What are the controlling factors of weathering?
 - Classify igneous rocks on the basis of their occurrence.
 - What are the natural causes of earthquakes?
 - Mention different atmospheric layers.
 - What is palaeomagnetism?
 - State the thermal conditions of the interior of the Earth.
 - What are the factors responsible for soil erosion?

[Turn over]

2. Write short notes on any **two** of the following:
 $5 \times 2 = 10$

- Formation of Monsoon on Indian subcontinent
- Modern theories of the origin of the Earth
- Role of humans in shaping landscapes
- Surface features of glaciers

3. Answer any **two** questions of the following: $10 \times 2 = 20$

- Discuss the hypothesis of 'sea-floor spreading'. Mention major evidences in support of the theory of 'sea-floor spreading'. $6 + 4 = 10$
- What is lithification? Classify sedimentary rocks with proper examples. Discuss the characteristics of metamorphic rocks. $2 + 5 + 3 = 10$
- Discuss the formation of Peninsular Indian Mountain Systems. Write a short note on the origin of the Himalayas. $5 + 5 = 10$
- What is atmospheric circulation? Discuss different forces responsible for atmospheric circulation with neat sketches. $2 + 8 = 10$