

6. Explain how the construction of Tehri Dam, a hydroelectric dam on the Bhagirathi River, has affected the land surface, fluvial, and other river basin processes. Give relevant examples (15)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1022 **D**

Unique Paper Code : 2182011101

Name of the Paper : Environmental and Earth
Surface Processes

Name of the Course : **B.Sc. Hons. Environmental
Sciences – Core**

Semester : I

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **four** questions.
3. **All** Questions carry equal marks.

1. (a) Fill in the blanks/one-word answer : (1×5=5)

(i) Topmost layer of earth's atmosphere is

_____?

P.T.O.

- (ii) Which type of igneous rocks make up the majority of igneous rocks?
- (iii) Himalaya is called a young _____ mountain?
- (iv) Glacial bodies larger than 50000 sq. km are called _____ ?
- (v) Pangea was a supercontinent that existed in which era?
- (b) Write short notes on the following? ($2\frac{1}{2} \times 4 = 10$)
- (i) Atmosphere
 - (ii) Weathering
 - (iii) Lithification
 - (iv) Isostasy
2. (a) Explain the origin of the Western Ghats and the role played by them in regulating the rainfall pattern in Peninsular India? (10)

- (b) Briefly explain the three rock laws. (5)
3. (a) Explain how continental drift and plate tectonics have played an important role in the formation of present-day continents, use illustrations. (10)
- (b) Draw a well-labelled diagram of the earth's structure and list each layer's major constituent elements. (5)
4. (a) Explain different types of rocks and explain the process of their formation in the earth's lithosphere? (9)
- (b) Explain why the Himalayan region is sensitive to earthquakes. (6)
5. Explain how the Himalaya's evolution has influenced the creation of the perennial river system and the evolution of the monsoon in the Indian Subcontinent. (15)