

SECTION A [30 MARKS]
ANSWER ALL QUESTIONS

Question I

1. State TWO characteristics of isotherms. **[2]**

2. Explain how variation in temperature influences atmospheric pressure in a region. **[3]**

3. State TWO impacts of the Coriolis effect on wind patterns. **[2]**

1. Using Figure 1.1 describe the shape of the Storm hydrograph.

[3]

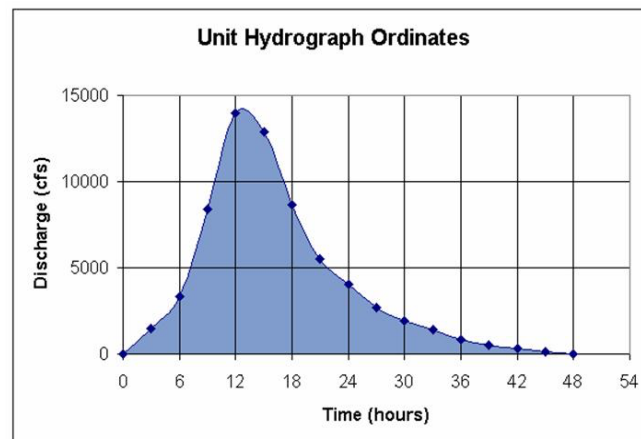
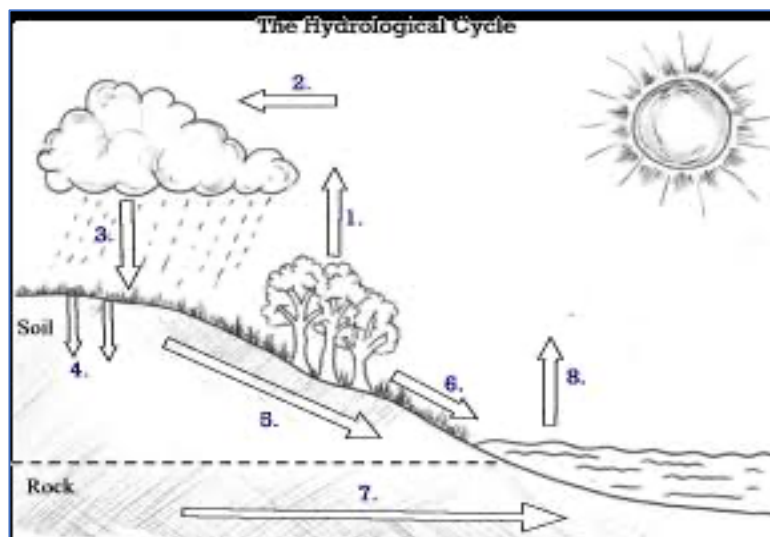


Figure 1.1 Storm hydrograph

Question II

1. Figure 2.1 shows the water cycle



a) Identify component 3 and 5 of the water cycle labelled.

[2]

b) Suggest how groundwater flow can be influenced by the geology.

[3]

2. Explain how differential heating of land and sea influences local climate.

[3]

3. State **TWO** consequences of glacier retreat in the Third Pole region.

[2]

Question III

- Figure 3.1 shows an example of tree rings which are evidence of past climate conditions.

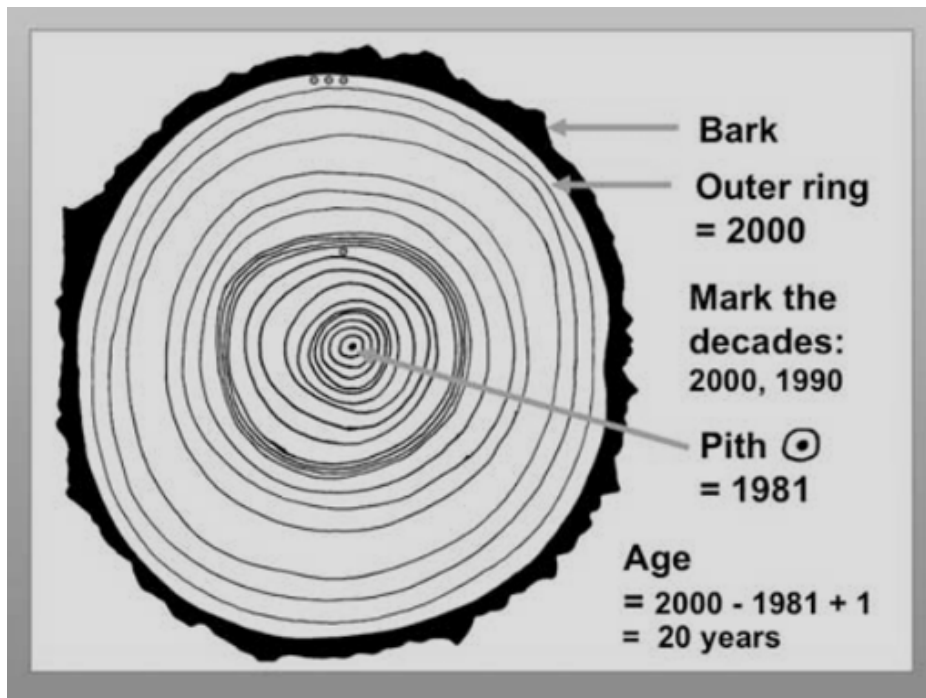


Fig: 1.2

- Describe the pattern of tree rings shown.

[2]

- Suggest reasons for the pattern you described in a).

[3]

- c) Apart from tree rings, state TWO other types of evidence used to reconstruct past climate conditions. **[2]**

2. Explain ONE change caused by rising global temperature. **[3]**

SECTION B (30 MARKS)

ANSWER ANY **THREE** QUESTIONS

Question IV

To what extent does scientific evidence support the claim that global warming is primarily caused by human activities? Use examples to support your answer.

15

Question VI

Evaluate the effectiveness of strategies for addressing impacts of climate change in the Third Pole region. Use examples to support your answer.

15

Question 7

Assess the impact of climate change on Bhutan’s hydropower industry. Use examples to support your answer.

[15]

