

KATHMANDU UNIVERSITY
End Semester Examination
March/April, 2017

MAR 30 2017

Level : B. Sc.
Year : IV
Time : 2 hrs. 30 mins.

Course : ENVS 423
Semester : I
F. M. : 55

SECTION "C"

(Long answer questions)
[3 Q. × 7 = 21 marks]

Attempt *ANY THREE* questions of the following.

1. What are the causes of earth's glaciation? Explain about the ice ages.
2. Write in detail the heat budget calculation method on a glacier surface.
3. Describe methods of measuring accumulation and ablation of a glacier in the field.
4. Why glaciers are said to be a good indicator of climate change? Describe the present status of glaciers and glacial lakes of Nepal in relation with present climatic scenario.

SECTION "D"

(Short answer questions)

5. Differentiate between *ANY FOUR* of the following. [4 Q. × 4 = 16]
 - a. Supra glacial and sub-glacial hydraulic systems
 - b. Little Ice Age and Last Glacial Maximum
 - c. Ice sheet and ice cap
 - d. Ice dammed and morainedammed glacial lakes
 - e. Snow and firn
6. Write short notes on *ANY THREE* of the following. [3 Q. × 4 = 12]
 - a. Ice core study
 - b. Zones in an accumulation area
 - c. Snow survey
 - d. Glacier surge
7. Give reasons why [2 Q. × 3 = 6]
 - a. Nepalese glaciers are not winter accumulation type glaciers.
 - b. Glaciological studies are important in Nepal.

