

( 2 )

4. Explain the various elements of channel geometry with suitable diagram(s). Elucidate the processes of fluvial transportation system. 5+5

### UNIT - III

5. What are glacial cycles ? Mention the periglacial processes and highlight major resultant landforms. 2+8
6. Explain the geomorphic events related to glacial isostasy. Describe the formation and characteristics of Alluvial Fan. 4+6

### UNIT - IV

7. Critically examine the role of human being as a geomorphic agent. How can geomorphological knowledge be used in identifying and managing hazards ? 5+5
8. Why is river restoration important ? Discuss the importance of urban geomorphology in town planning. 3+7

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Ex./M.Sc./GEOG/101T/70/2019

## MASTER OF SCIENCE EXAMINATION, 2019

(1st Year, 1st Semester)

### GEOGRAPHY

Quaternary Geomorphology

Paper : - GEOG-101T

Time : Two hours

Full Marks : 40

Answer any *four* questions choosing *one* question for each unit.

### UNIT - I

1. Define Quaternary. How does Chemostratigraphy and Biostratigraphy help in identification of paleo-climatic changes and stratigraphy ? 2+8
2. What is an Erosional surface ? Critically discuss Wood's theory of hill slope evolution. 2+8

### UNIT - II

3. Examine the various flow patterns in an open stream channel. What are the primary components of the Rosgen's method of channel classification ? 7+3

(Turn over)