

[Time: Three Hours]

[Marks:100]

Please check whether you have got the right question paper.
N.B: 1. All questions are compulsory.
2. Draw neat diagrams wherever necessary.

Q1 Fill in the blanks. 10

- i) _____ drainage pattern develops over a dome structure.
- ii) _____ drainage pattern develops if the streams are flowing on the flanks of a volcano.
- iii) Zeugens are the result of _____ erosion.
- iv) Spheroidal weathering is a type of _____ weathering.
- v) A part of river where marine and fresh water mixes is called as _____.
- vi) Long sharp-edged ridge forms as a result of glacial activity is called as _____.
- vii) A part of glacier when reaches below mean sea level it is called as _____.
- viii) A table-top kind of landform having its top width more than the height of the landform is also called as _____.
- ix) A landform having its top surface width less than the its actual height is called as _____.
- x) A drainage pattern resembling like branches of a tree is called as _____ drainage pattern.

Q1B Define the following: 10

- i) Honeycomb weathering
- ii) Entrenched meanders
- iii) Pumice
- iv) Bajada
- v) Parabolic dunes
- vi) Star dunes
- vii) Ground moraine
- viii) Medial moraine
- ix) Cross valley profile
- x) Bifurcation ratio

- Q2 Answer any **Two** of the following. 20
- Write a note on various types of landforms formed on area with faults
 - Write a note on formation and types of caldera.
 - Describe various types of chemical weathering.
 - Describe meandering, antecedent and superimposed streams.
- Q3 Answer any **Two** of the following. 20
- Describe **any two** coastal erosional and depositional landforms each.
 - Describe **any two** types of poljes and dolines formed in karst landforms each.
 - Write a note on **any two** glacial depositional and erosional landforms each.
 - Write a note on any five types of dunes observed as a result of aeolian deposition in deserts.
- Q4. Answer any **Two** of the following. 20
- Describe various laws of drainage basin geometry.
 - Write a note on topographic profiles. Explain topographic profiles of hogback, plateau and hill with appropriate diagrams.
 - Describe stream ordering scheme proposed by different authors. What is the main drawback of the any stream ordering scheme? Explain
 - What is a storm hydrograph? What are the various factors which affect the shape of the hydrograph.
- Q5 Answer any **Four** of the following. 20
- Tephra
 - Antecedent rivers
 - Ox-bow lake formation
 - Stalactites and stalagmites
 - Bifurcation ratio
 - Linear parameters associated with drainage basin