



বিদ্যাসাগর বিশ্ববিদ্যালয়

**VIDYASAGAR UNIVERSITY**

**M.A./ M.Sc. Examinations 2020**

**Semester IV**

**Subject: GEOGRAPHY**

**Paper: GEO - 495**

(Practical)

**Full Marks: 50**

**Time: 3hrs.**

*Candidates are required to give their answers in their own words as far as practicable.*

**Paper /Unit: 495.1 SPATIAL ANALYSIS IN GEOGRAPHY**

Answer any One of the following questions

1. Explain the procedure of calculating Shimbel Index of a transport network.
2. Illustrate the procedure of identifying market place considering distance along the links and marketable surplus from the nodes of a transport network taking one example.
3. Examine rationality of transport network using detour analysis taking one hypothetical example.
4. 'Soil organic carbon (SOC) is essential for vegetation growth. The global climate change has raised a significant issue of loss of SOC in the form of CO<sub>2</sub> through bacterial activity'. Under the purview of this statement, how do you set up an experimental framework, focusing on either point pattern or grid-based approach, over a region to study the spatial pattern of SOC loss?
5. How significant the directional analytical methods are in understanding the discharge behaviour of a river basin?
6. 'A higher order of stream, which is generated based on the geology and relief, produces elongated basin, while a lower order makes more circular shape'- explain the statement with theoretical understanding of river-basin morphometry.



**Paper /Unit: 495. 2: Research Exercise in Geography**

**Instruction:**

Students are required to upload dissertation to designated email. Faculty members will examine the dissertations that they guided. Faculty members will evaluate the dissertation based on the following criteria.

	Heads of evaluation	Numbers
1	Rationale of topic selection	2
2	Volume of Literature review and synthesis of existing information on selected field.	5
3	Preciseness of Objectives	2
4	Strength of data (Quality)	2
5	Result and Analysis	5
6	Conclusion	2
7	Referencing	2
Total		20