

Roll No.

Total Pages : 02

BT-8/D-18

38046

GEOSYNTHETICS ENGINEERING

CE-414-E

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

- 1. What are the basic functions that Geosynthetics perform ?
Discuss various types of Geosynthetics. 15
- 2. Discuss various raw materials used for Geosynthetics and their durability. 15

Unit II

- 3. What are woven and non-woven geotextiles ? How are they manufactured ? 15
- 4. Describe various physical and mechanical properties of Geogrids under uniaxial loading. 15

Unit III

- 5. Discuss the use of Geo-synthetics against Wind Erosion and Rain Water Erosion. Also discuss the placement of Geogrids. 15
- 6. Describe as to how the bearing capacity of soil below a footing can be increased by using Geogrids. Also discuss the various modes of failure. 15

Unit IV

- 7. Discuss the use of Geosynthetics in Hiran II Dam. 15
- 8. Discuss the case history of lining a canal using Geosynthetics. 15

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