

Dec 13 (KVK)

Roll No. Total Pages : 02

BT-8/D-13 8845

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. All questions carry equal (15) marks.

Unit I

1. Discuss durability and ageing of Geosynthetics ?
2. What is Geosynthetics ? Discuss their applications in the civil engineering projects.

Unit II

3. Discuss physical and mechanical properties of geosynthetics under uniaxial loading.
4. With the aid of neat sketches illustrate difference between woven and non-woven geotextiles.

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Unit III

5. How geogrids are placed while reinforcing soil ? Illustrate with the help of a neat sketch. Compare performance of geogrids over steel as reinforcements.

6. How are geogrids applied in controlling wind and rain water erosion ?

Unit IV

7. Give application of geosynthetics in water resources projects quoting case study on Dharoi dam and Hiran dam.

8. Give application of geosynthetics in water resources projects quoting case study on lining of Kakarapur Canal.

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