

Roll No.

Total Pages : 2

BT-8/M-20

38046

GEOSYNTHETICS ENGINEERING

Paper–CE-414-E/CE-414-N

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT–I

1. What are Geo-synthetics? Give classification of Geo-synthetics. 15
2. Discuss briefly the various Raw materials used in manufacturing of Geo-synthetics. 15

UNIT–II

3. Explain Fibre, Yarn and DSF fabrics. 15
4. Explain manufacturing process of non-woven Geo-textiles. 15

UNIT–III

5. Discuss briefly with sketches the process of Erosion control with Geo-grids. 15

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6. Discuss the physical and mechanical properties of Geogrid under uniaxial loading. 15

UNIT-IV

7. Write short notes on the following :
- (a) Dharoidam.
- (b) Hiran II Dam. 7½, 7½
8. What are the applications of Geo-synthetics in Civil engineering projects? Explain in detail with diagram. 15