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Total Pages : 2

**BT-8/D-19**

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**GEOSYNTHETICS ENGINEERING**

**Paper-CE-414E**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt any *five* questions selecting at least *one* question from each unit All questions carry equal marks.

**UNIT-I**

1. What are different types of Geosynthetics available in the market. Give Plan and symbols used to designate the various Geosynthetics. Also discuss various functions performed by Geosynthetics. 15
2. Give a critical review of durability and aging of Geosynthetics. 15

**UNIT-II**

3. How staple fibre nonwoven geotextiles are manufactured? How does this differ from spun laid nonwoven geotextile? 15
4. How creep resistance of geosynthetics estimated? How the Isochronous curves for creep test generated? 15

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**UNIT-III**

5. What are advantages of reinforcing soils with geogrids over steel? How the bearing capacity of loose cohesion less soils improved by using geogrids? 15
6. Discuss pull-out test to estimate interface friction between geotextile and soil. 15

**UNIT-IV**

7. Discuss application of geosynthetics in water resources projects illustrating case studies of Dharoidam. 15
8. Illustrate the case study of Meda Creek Irrigation scheme. 15

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