Roll No.

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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 marks.

Unit I

- Discuss briefly the Historical development Geosynthetics. What major functions are served by Geosynthetics? Also discuss their applications. 15
- Discuss the process of chain scission in degradation of Polymeric Material. 15

Unit II

- Compare woven and non-woven geotextiles on the basis of manufacturing process. 15
- Discuss various tests on Geogrids used to determine the physical properties and also discuss tensile strength testing under uniaxial loading. 15

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P.T.O.

Unit III

- What are advantages of reinforcing soils with geogrides over steel? How the bearing capacity of loose cohension soils improved by using geogrides. 15
- How geogrides are placed along an earthen slopes to protect them from erosion? 15

Unit IV

- Describe the case study of lining KAKARAPAR canal with Geosynthetics. 15
- Give application of geosynthetics in water resources projects, quoting case study on DHAROI DAM and HIRAN DAM. 15

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