Second Semester M. E. (Civil Engg.) F. T. Examination

GEOSYNTHETICS

Paper - 2 SFGE 3

P. Pages: 2

Time: Three Hours 1

[Max. Marks : 80

- Note: (1) All question carry equal marks.
 - (2) Due credit will be given to neatness and adequate dimensions.
 - (3) Illustrate your answer wherever necessary with the help of neat sketches.
- Solve any two :—
 - (a) Discuss role of Geosynthetics in landslide mitigation and Erosion control.

(b) Explain various functions of Geosynthetics and draw graphical symbol suggested by International Geosynthetic society.

- (c) Discuss sampling to be carried out in laboratory testing and evaluation of Geotextile.
- 2. Solve any two:
 - (a) Discuss utility of various types of synthetic fibers in construction engineering and earthwork.
 - (b) State relationship between properties and functions of geotextiles. Also explain six basic functions of Geotextile.
 - (c) Describe Hydraulic Requirements from the Geotextiles for its application in Shore Protection Works.
- 3. Solve any two :—
 - (a) Discuss functions of Geosynthetics in pavements and related systems.

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- (b) Discribe procedure for determining Tensile strength and puncture resistance as per Koerner (1997).
- (c) Explain AASHTO method of design for paved roads with Geosynthetics.

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- 4. Solve any two :--
 - (a) Draw neat sketch for various types of reinforced soil wall and abutments after Bs 8006,1995.
 - (b) Describe procedure to check internal stability and determining reinforcement requirements of Geosynthetic Reinforced soil walls as per FHWA. 8
 - (c) Summarise various partial factors to be used for Geosynthetic Reinforced soil wall as per BS. 8006,1995.
- 5. Solve any two:--
 - (a) Describe silt Fence installation method.
 - (b) Explain Rolled erosion control products on slopes and in channels. 8
 - (c) Explain problems associated with Hard Armor systems and how Geosynthetic loads solution.
