

Unit 13 - Week 11

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Erosion Control of Soils Using Geosynthetics

Sustainable Infrastructure Development & Natural Geosynthetics

Quiz : Assignment 11

Week 11 Feedback : Geosynthetics And Reinforced Soil Structures

Week 12

Text Transcripts

Download Videos

Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-15, 23:59 IST.

1) What are the problems associated with soil erosion? 1 point

- Loss of shore line
- Loss of top soil
- Loss of reservoir capacity due to silting
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

2) What are the primary factors leading to erosion on hill slopes? 1 point

- Wind
- Rain water
- Sun
- Loss of vegetation on hill slopes

No, the answer is incorrect.
Score: 0

Accepted Answers:
Wind
Rain water
Loss of vegetation on hill slopes

3) What are the factors influencing the rainwater erosion on embankment slopes? 1 point

- Duration and intensity of rain fall
- Particle size distribution of soil
- Plasticity index of soil
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

4) Which of the following statements are correct? 1 point

- Erodability is high for silt and fine sand.
- Erodability is low for silt and fine sand.
- Erodability is low for clay soils.
- Erodability is high for coarse gravel.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Erodability is high for silt and fine sand.
Erodability is low for clay soils.

5) Choose some possible applications for natural geosynthetics 1 point

- Erosion control works
- Reinforcement for very high retaining walls
- Basal reinforcement below an embankment
- Accelerated consolidation of soft clay soils.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Erosion control works
Accelerated consolidation of soft clay soils.

6) What is meant by sustainable infrastructure project? 1 point

- Project is completed in time at fast pace.
- Project is completed within the budget limits
- Project is completed with least impact on the natural resources.
- Project is completed to the satisfaction of users and contractor.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Project is completed with least impact on the natural resources.

7) Natural fibres include the following. 1 point

- Coir fibres
- Jute fibres
- Glass fibres
- Synthetic fibres

No, the answer is incorrect.
Score: 0

Accepted Answers:
Coir fibres
Jute fibres

8) The reduction of erosion potential due to surface vegetation is due to, 1 point

- Root system of plants
- Slowing down of surface runoff
- Blocking sun light
- Greenery of the vegetated area.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Root system of plants
Slowing down of surface runoff

9) Some geosynthetic solutions for erosion control on sea shores with severe wave and tidal conditions are, 1 point

- Use of geogrids
- Use of stone filled gabions
- Use of strong geotextiles
- Use of geotubes

No, the answer is incorrect.
Score: 0

Accepted Answers:
Use of stone filled gabions
Use of geotubes

10) Some reasons for effectiveness of coir geotextiles for vegetation growth on embankment slopes are, 1 point

- High tensile strength
- Moisture retention capacity
- Nutrient for plants as they biodegrade
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Moisture retention capacity
Nutrient for plants as they biodegrade