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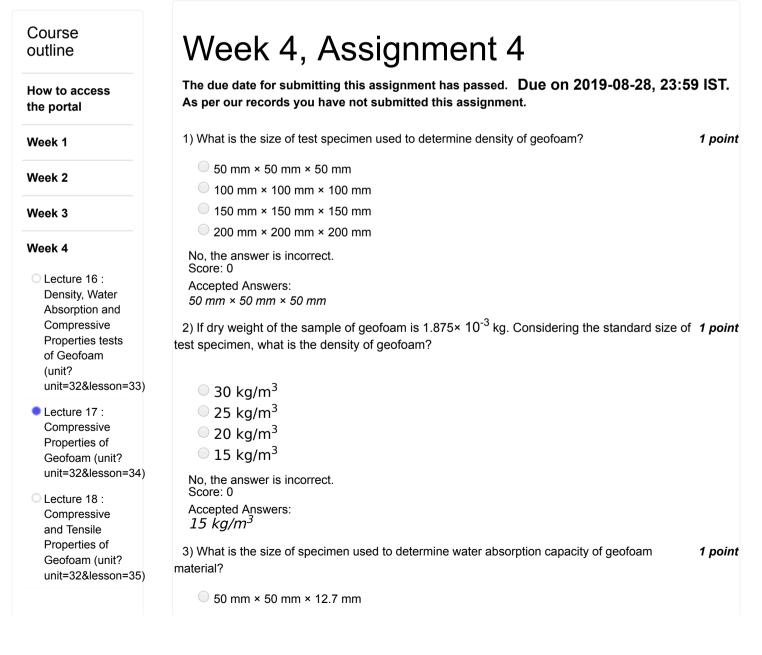
reviewer4@nptel.iitm.ac.in ~

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Geosynthetics Testing Laboratory (course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc19_ce35/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 5 - Week 4



 Lecture 19 : Tensile and Shear
Properties of Geofoam (unit? unit=32&lesson=36)

 Lecture 20 : Shear and Flexural Properties of Geofoam (unit? unit=32&lesson=37)

 Lecture 21 : Flexural Properties and Flammability Test of Geofoam (unit? unit=32&lesson=38)

Download
Videos (unit?
unit=32&lesson=39)

Quiz : Week 4, Assignment 4 (assessment? name=46)

 Week 4, Assignment 4 Solution (unit? unit=32&lesson=51)

 Weekly
Feedback (unit? unit=32&lesson=40) 75 mm × 75 mm × 12.7 mm
100 mm × 100 mm × 12.7 mm
125 mm × 125 mm × 12.75 mm
No, the answer is incorrect. Score: 0
Accepted Answers:
75 mm × 75 mm × 12.7 mm

4) The initial dry weight of geofoam sample was 1.023 g. The sample was completely immersed **1** point in water for 24 hours, the wet weight of geofoam was observed to be 1.063 g. What is the water absorption capacity (%) of geofoam material?

2.421		
5.230		
3.910		
8.793		
No, the answer is incorrect. Score: 0		
Accepted Answers: 3.910		
5) What is the size of specimen of proposed unconfined compression test (PUCT) on EPS geofoam?	1 point	
Diameter= 50 mm; Height= 100 mm		
Diameter= 75 mm; Height= 150 mm		
Diameter= 100 mm; Height= 175 mm		
Diameter= 150 mm; Height= 200 mm		
No, the answer is incorrect. Score: 0		
Accepted Answers: Diameter= 75 mm; Height= 150 mm		
6) Which ASTM standard is used to determine tensile properties of geofoam?	1 point	
ASTM D6241		
ASTM D1623		
ASTM D4884		
O ASTM D1388		
No, the answer is incorrect. Score: 0		
Accepted Answers: ASTM D1623		
7) In shear strength test of geofoam, the maximum load at failure was observed to be 1255N, what will be the shear strength of the sample?	1 point	

- 139.27kPa
- 121.57 kPa
- 94.4kPa
- 83.66 kPa

No, the answer is incorrect. Score: 0 Accepted Answers: *83.66 kPa*

8) In the flexural strength determination test on geofoam, the maximum load at failure was 1 point observed to be 46.1 N. What is the flexural strength of the sample (select the closest option)?

277.0 kPa 240.6 kPa 211.3 kPa 149.9 kPa No, the answer is incorrect. Score: 0 Accepted Answers: 277.0 kPa 9) What is the size of test specimen used for flammability test? 600 mm × 100 mm × 75 mm 100 mm × 15 mm × 5 mm 200 mm × 25 mm × 10 mm 500 mm × 75 mm × 50 mm No, the answer is incorrect. Score: 0 Accepted Answers: 200 mm × 25 mm × 10 mm 10)What is the moment on inertia of the standard sample used to determine flexural strength of 1 point geofoam?

 \sim 4.8 × 10⁻⁷ m⁴ ● 1.3× 10⁻⁷ m⁴ ○ 3.5× 10⁻⁷ m⁴ ● 2.2× 10⁻⁷ m⁴

No, the answer is incorrect. Score: 0 Accepted Answers: 1.3×10-7 m⁴

1 point