



(https://swayam.gov.in/nc\_details/NPTEL)

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## 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 3 - Week 2

Course outline	Week 2, Assignment 2	
How to access the portal	The due date for submitting this assignment has passed. <b>Due on 2019-08-21, 23:59 IS</b> As per our records you have not submitted this assignment.	
Week 1	1) What is the tip angle of the drop cone use for the drop cone test in laboratory? <b>2</b> <i>p</i>	oints
Week 2 Lecture 6 : Drop Cone Test (unit? unit=14&lesson=15)	<ul> <li>40 degree</li> <li>45 degree</li> <li>50 degree</li> <li>55 degree</li> </ul>	
<ul> <li>Lecture 7 : Puncture Resistance Test (unit? unit=14&amp;lesson=16)</li> </ul>	No, the answer is incorrect.         Score: 0         Accepted Answers:         45 degree         2) The hole (made by the cone in Drop Cone Test) size is measured in         2 p	oints
<ul> <li>Lecture 8 : Puncture Resistance Test and Burst Strength Test (unit? unit=14&amp;lesson=17)</li> </ul>	<ul> <li>centimeter</li> <li>millimeter</li> <li>micrometer</li> <li>none</li> <li>No, the answer is incorrect.</li> </ul>	
CLecture 9 : Grab Tensile Test (unit? unit=14&lesson=18)	Score: 0 Accepted Answers: <i>millimeter</i> 3) Which test requires hydraulic pressure? 2 p	oints
<ul> <li>Lecture 10 : Grab Tensile Test and Triaxial Test (unit? unit=14&amp;lesson=19)</li> </ul>	<ul> <li>Mullen burst</li> <li>Ball burst</li> <li>CBR burst</li> </ul>	

Download	None
Videos (unit? unit=14&lesson=20)	No, the answer is incorrect. Score: 0
O Quiz : Week 2,	Accepted Answers:
Assignment 2	Mullen burst
(assessment? name=44)	4) The container in Drop Cone Test is filled up with <b>2</b> points
<ul> <li>Geosynthetics</li> </ul>	slurry
Testing	🔍 oil
Laboratory	◯ soft soil
(noc19_ce35) - Week	water
2,Assignment 2	No, the answer is incorrect.
- Solution (unit?	Score: 0
unit=14&lesson=48)	Accepted Answers:
Weekly	water
Feedback (unit? unit=14&lesson=21)	5) Required geotextile burst strength ( $T_{reqd}$ ) is <b>2</b> points
Week 3	Directly proportional to size of stone
	Inversely proportional to size of stone
Week 4	Not related to size of stone
	None of the above
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	Directly proportional to size of stone
	6) Let, tire inflation pressure = 600 kPa and maximum size of stone = 50 mm. Calculate the <b>2</b> points required burst strength of geotextile using $Dv = 0.33$ Da, diameter of burst equipment = 30 mm, C.R.F = 1.2 and F.S. = 2.5.
	─ 1237 kPa
	990 kPa
	<ul> <li>660 kPa</li> </ul>
	644 kPa
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: 990 kPa
	7) What will be the shape factor of rock (S'), if the sphericity of rock (S) = 0.25. <b>2</b> points
	0.76
	0.75
	0.74
	0.73
	No, the answer is incorrect. Score: 0
	Accepted Answers: 0.75
	8) Determine the required puncture resistance of a geotextile, when apparent opening size of <b>2</b> points the geotextile is 0.40 mm, size of rock = 30 cm, sphericity of rock = 0. 24, and tire pressure = 800 kPa.
	─ 229 N

$\bigcirc$	305	Ν
$\bigcirc$	381	Ν
$\bigcirc$	400	Ν

No, the answer is incorrect. Score: 0 Accepted Answers: 229 N

9) Calculate the mobilized energy due to a free falling rock of 350 mm diameter from a height of 2 points2 m on a geotextile.

- 1189 Jules
- 1895 Jules
- 2307 Jules
- 2504 Jules

No, the answer is incorrect. Score: 0 Accepted Answers: *1189 Jules* 

10)A rock of 350 mm diameter fall from a height of 2 m on a geotextile. If C. B. R of subsoil = 3 **2** points (modification factor =15) and allowable impact strength of geotextile = 100 Jules, calculate the factor of safety.

1.26
0.79
0.65
0.5
No, the answer is incorrect. Score: 0
Accepted Answers: 1.26