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Unit 3 - Week 2

Week 2, Assignment 2

The due date for submitting this assignment has passed. Due on 2019-08-21, 23:59 IST. As per our records you have not submitted this assignment.

1) What is the tip angle of the drop cone use for the drop cone test in laboratory?  
   - 40 degree  
   - 45 degree  
   - 50 degree  
   - 55 degree  
   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  
   - centimeter  
   - millimeter  
   - micrometer  
   - none  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   millimeter

3) Which test requires hydraulic pressure?  
   - Mullen burst  
   - Ball burst  
   - CBR burst  
   - Burst  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   Burst

https://onlinecourses.nptel.ac.in/noc19_ce35/unit?unit=14&assessment=44
None
No, the answer is incorrect.
Score: 0
Accepted Answers:
Mullen burst

4) The container in Drop Cone Test is filled up with

- slurry
- oil
- soft soil
- water

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

5) Required geotextile burst strength (\(T_{reqd}\)) is

- Directly proportional to size of stone
- Inversely proportional to size of stone
- 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 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
- 660 kPa
- 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.

- 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 the geotextile is 0.40 mm, size of rock = 30 cm, sphericity of rock = 0.24, and tire pressure = 800 kPa.

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

- 305 N
- 381 N
- 400 N

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

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

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

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