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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? ***2 points***

- 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 ***2 points***

- centimeter
- millimeter
- micrometer
- none

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

3) Which test requires hydraulic pressure? ***2 points***

- Mullen burst
- Ball burst
- CBR burst

- None

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

4) The container in Drop Cone Test is filled up with **2 points**

- slurry
- oil
- soft soil
- water

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

5) Required geotextile burst strength (T_{reqd}) is **2 points**

- 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. **2 points**

- 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. **2 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 the geotextile is 0.40 mm, size of rock = 30 cm, sphericity of rock = 0. 24, and tire pressure = 800 kPa. **2 points**

- 229 N

- 305 N
- 381 N
- 400 N

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 m on a geotextile. ***2 points***

- 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 (modification factor =15) and allowable impact strength of geotextile = 100 Jules, calculate the factor of safety. ***2 points***

- 1.26
- 0.79
- 0.65
- 0.5

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.26