Assignment 5

The due date for submitting this assignment has passed. Due on 2021-02-24, 23:59 IST.

As per your records you have not submitted this assignment.

1) The rock mass has following properties: UCS = 55 MPa, RQD = 80, spacing of discontinuities = 0.4 m, rough and slightly weathered wall rock surface separation = 1 mm, and deep condition. Find out basic value of RMR. 1 point
   
   90
   95
   70
   30

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 2

2) If a tunnel is to be constructed through the rock mass having properties as given in Q. 1 for favourable joint orientation, what will be the value of RMR? 1 point
   
   75
   60
   50
   30

   No, the answer is incorrect.
   Source: 1
   Accepted Answers: 3

3) Based upon the value of RMR obtained in Q. 2, the rock mass can be classified as 1 point
   
   Fair
   Good
   Poor
   None of the above

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 2

4) What will be average stand-up time for tunnel in the rock mass as classified in Q. 2? 1 point
   
   1 year for 15 m span
   1 week for 5 m span
   2 years for 15 m span
   20 years for 15 m span

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 3

5) In Q3 system, generally, the rating for joint set number is approximately equal to - 1 point
   
   square root of number of joint sets
   cube root of number of joint sets
   square of number of joint sets
   cube of number of joint sets

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 4

6) The expression to obtain Q is 1 point
   
   \( Q = \frac{RMR}{\sqrt{L}} \)
   
   \( Q = \frac{RMR}{L} \)
   
   \( Q = \frac{RMR}{L^2} \)
   
   None of the above

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 4

7) Rock mass with Q = 8, can be classified as - 1 point
   
   Very poor
   Good
   Poor
   Fair

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 3

8) Rock mass with blocky structure and good surface quality will have GSI in between - 1 point
   
   90 & 80
   40 & 75
   60 & 90
   42 & 50

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 3

9) What will QRF for a rock mass having Q' of 6? 1 point
   
   9
   33
   60
   5

   No, the answer is incorrect.
   Source: 2
   Accepted Answers: 5

10) For the value of GSI as obtained in Q.8, what will be the values of Hoek and Brown parameters, a, and c respectively? 1 point
    
    0.3, 2.069
    0.41, 0.5
    0.41, 0.602
    None of the above

    No, the answer is incorrect.
    Source: 2
    Accepted Answers: 2