

B. Tech. Sem – VIII (Civil Engg.) (2014 COURSE) (CBCS) :
SUMMER - 2019

SUBJECT: ADVANCED ENGINEERING GEOLOGY WITH ROCK MECHANICS

Day: Thursday
Date: 30/05/2019

S-2019-2883

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

N.B. :

- 1) All questions are **COMPULSORY**.
 - 2) Draw neat and labeled diagrams wherever necessary.
 - 3) Figures to the right indicate **FULL** marks.
 - 4) Assume suitable data, if necessary.
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Q.1 Explain the precautions necessary to avoid misleading conclusions likely to be drawn while interpreting Drilling data with particular reference to R Q D. **(10)**

OR

Q.1 Illustrate the factors affecting Strength and Water Tightness of Deccan Trap rocks **(10)**

Q.2 Compare the use of Compact Basalts and Amygdaloidal Basalts as Rubble for Masonry, Metal for Concrete and Railway Ballast. **(10)**

OR

Q.2 Illustrate with examples the water bearing characters of different types of Basalts **(10)**

Q.3 Enumerate in details the water tightness of Deccan Trap rocks from Dam foundation point of view. **(10)**

OR

Q.3 Explain the concept of Tail channel Erosion? Describe the conditions leading for Tail Channel Erosion **(10)**

Q.4 Illustrate the Preliminary Geological Investigations necessary for Tunnels with suitable examples **(10)**

OR

Q.4 Enumerate in short the problems may have to be faced while Tunneling through Compact Basalts **(10)**

Q.5 Compare the Residual and Transported Soils with an example . **(10)**

OR

Q.5 Explain the process of Weathering of Basalts . **(10)**

Q.6 Describe in details the Physical properties of Deccan Trap rocks **(10)**

OR

Q.6 Give an detailed account on RMR with suitable example. **(10)**

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