

B. TECH. (CBCS - 2014 COURSE) SEM – VIII (CIVIL ENGG.) :
SUMMER - 2018
SUBJECT: ADVANCED ENGINEERING GEOLOGY WITH ROCK MECHANICS

Day: **Saturday**
Date: **09/06/2018**

S-2018-4663

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.

Q.1 Illustrate the Importance of Geological studies in Engineering Investigations with suitable case studies **(10)**

OR

Q.1 Explain the field characters of flows and regional distribution of Deccan Trap rocks **(10)**

Q.2 Enumerate the water bearing characters of Volcanic Breccias , Tachylitic Basalts and Dykes **(10)**

OR

Q.2 Illustrate with example the nature of older alluvium **(10)**

Q.3 Describe in brief the strength and water tightness of Deccan Trap rocks **(10)**

OR

Q.3 Enumerate the different Treatments given to foundation rock of Dam **(10)**

Q.4 Illustrate the process of Tunneling through Compact Basalt and Volcanic Breccias **(10)**

OR

Q.4 Describe the Preliminary Geological Investigations for Bridges **(10)**

Q.5 Illustrate with examples the process of Formation of Soils **(10)**

OR

Q.5 Describe the process of weathering of Granites **(10)**

Q.6 Describe in brief the physical and mechanical properties of Deccan Trap rocks **(10)**

OR

Q.6 Enumerate in short the “Q” system of classification. **(10)**

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