SUBJECT CODE:- 286
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(CIVIL) Examination Nov/Dec 2015
Engineering Geology
(Revised)

[Time: Three Hours]   [Max. Marks: 80]

"Please check whether you have got the right question paper."

N.B   i) Q.No.1 is compulsory and solve any two from the remaining questions from section 'A'
             ii) Q.No.6 is compulsory and solve any two from the remaining questions from section 'B'
             iii) Neat diagrams must be drawn wherever necessary.

Section A

Q.1   Write short notes on (any five)   10
        i) Earth quake waves   ii) Volcano
        iii) Silicate minerals   iv) Metamorphism
        v) Inliers   vi) Dyke & sill

Q.2   a) Define mountain & explain types of mountains   08
      b) What is igneous rock? Explain volcanic & hypabyssal rock. With explain each.   07

Q.3   a) What is fold? Explain parts of fold and give the difference between anticline & syncline.   08
      b) Explain physiographic division of India and their characteristics.   07

Q.4   a) Discuss origin, distribution, classification economic importance of Cuddapah rocks in India.   07
      b) Define mineral? Add a note on rock forming minerals.   08

Q.5   a) What is sedimentary rock? explain structure of sedimentary rock.   08
      b) Explain the example with their characteristics of metamorphic rock & volcanic rock.   07

Section-B

Q.6   Write short note on (any five)   10
        i) Limitation of drilling
        ii) Artesian well
        iii) Amygdaloidal Basalt
        iv) Tunnel lining
        v) Seismogram
        vi) Tsunnamis

Q.7   a) Describe the various methods of prevention of landslides.   08
      b) Discuss the factors that help in selecting the rocks for building purposes   07

Q.8   a) Explain the preliminary exploration in detail.   08
      b) Define ground-water? Describe the zones of ground water.   07

Q.9   a) Why the rain water harvestings is necessary.   08
      b) Explain the properties of vessicular Basalt, Tycalctic Basalt ,compact Basalt   08

Q.10   a) What difficulties have to be faced if   08
        i) Dams along strata downstream dipping
        ii) Dams on jointed rock
      b) What difficulties have faced if   07
        i) Tunnel along the strike of strata
        Ii) Tunnel along the axis of a syncline