

Total number of printed pages-3

53 (CE 305) ENGL

2016

ENGINEERING GEOLOGY

Paper : CE 305

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any four from the rest.

1. (a) What is the basic difference between : 18
- (i) Dyke and batholith
 - (ii) Arenaceous rocks and rudaceous rocks
 - (iii) Deflation and abrasion
 - (iv) Recumbent fold and plunging fold
 - (v) Rotational landslide and translational landslide
 - (vi) True dip and apparent dip.

Contd.

- (b) Describe the yielding capacity of igneous and sedimentary rocks. 2
2. (a) What is crystal system? Describe all the crystal systems with suitable examples. 15
- (b) Define resource engineering, earthquake and landslide. 5
3. (a) Define building stones. What are its essential physical properties? 4
- (b) What are concordant bodies? Describe the various concordant bodies. 8
- (c) Describe briefly the mode of formation of sedimentary rocks in nature. Also give the commonly used sedimentary rocks as building stones. 8
4. (a) What are the engineering consideration of a fault? How faults are taken care of in case of a reservoir? 5
- (b) Discuss the classification of faults with diagrams. 15

5. (a) Discuss rock weathering and its types. 6
- (b) What is sitting up of a reservoir? Describe the various structural features of a dam site. 14
6. (a) Describe the geological work done by glaciers. 10
- (b) Define metamorphism and its types. How gneiss and marble are formed and by which metamorphism? 10
7. (a) What are the basic causes of folding? Describe the various parts of folding. 12
- (b) What are shock waves? Discuss its types and manner of propagation. 8
-