

Total number of printed pages-3

53 (CE 305) ENGL

2018

ENGINEERING GEOLOGY

Paper : CE 305

Full Marks : 100

Time : Three hours

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

Answer any five questions.

1. (a) Explain elastic rebound theory. 4
- (b) Define folds. How do they originate ?
2+4
- (c) What are the two causes of Candelide and how it can be prevented ? 5+5
2. (a) What do you understand by silting of reservoir ? How it can be checked ?
3+3
- (b) Define building stones. Give essential physical properties of building stones.
2+4

Contd.

- (c) How the structural features such as dip, strike and folds of the underlying rocks should be analysed ? 8
3. (a) Define Geology. 2
- (b) Enlist the various subdivisions of geology. 3
- (c) Give a brief aim of *any eight* branches of geology. 8
- (d) Describe the various parts of a fold with suitable diagram. 7
4. (a) What do you understand by rock weathering ? Discuss its types. 2+4
- (b) How conchoidal and hackly fractures of a mineral are identified ? 4
- (c) What is geological work ? Describe geological work done by glaciers. 2+8
5. (a) What are argillaceous and rudaceous rocks ? Also state the categories of rock in which these two fall. 4+1
- (b) How metamorphic rocks are formed in nature ? What is dynamic metamorphism ? 3+2

- (c) Describe the common types of faults and give their distinguishing features. 10
6. (a) What is commonly understood from the term age of the earth ? 6
- (b) Explain the constitution of mantle and core of the earth. 6
- (c) What is mineralogy ? Enlist the various properties to be studied for the identification of a mineral. 2+2
- (d) How sill and phacolith are formed ? Give suitable diagrams. 4
7. (a) How petrology is important for a civil Engineer ? 4
- (b) Define crystal system. Describe the various crystal system. 2+6
- (c) What are igneous rocks ? Classify igneous rocks according to mode of solidification of magma. 2+6
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