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**[4757]-1008**

**S.E. (Civil Engineering) (Second Semester) EXAMINATION, 2015  
ENGINEERING GEOLOGY  
(2012 PATTERN)**

**Time : Two Hours**

**Maximum Marks : 50**

**N.B.** :— (i) Write the answers to any *four* questions in a single answer-book.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data if necessary.

1. (a) Explain different forms of Minerals with suitable examples. [6]
- (b) Describe Civil Engineering significance of foliations of metamorphic rocks. [6]

*Or*

2. (a) What are extrusive and intrusive Igneous bodies ? Describe various Discordant Igneous intrusive bodies with neat diagrams. [6]
- (b) State and explain general principles of Stratigraphy. [6]

P.T.O.

3. (a) What is Fold ? Give nomenclature of the FOLD. Describe how fold passes into the Fault. [6]
- (b) What are Joints ? How do they occur in igneous and metamorphic rocks ? Describe types of Joints and their Civil Engineering significance. [6]

*Or*

4. (a) What is Rejuvenation ? Explain *two* features resulting due to rejuvenation. [6]
- (b) Write in detail mineral wealth of Gondwana. [6]
5. (a) What are the geological requirements for the foundation of Dam ? [6]
- (b) Describe geological work of groundwater in detail. [7]

*Or*

6. (a) What is Artesian condition ? Explain any *three* geological conditions leading to artesian well. [7]
- (b) Describe any *three* features developed due to marine erosion. [6]

7. (a) What difficulties you may face while tunnelling through : [7]
- (i) Axial portion of Syncline
  - (ii) Dyke crossing the alignment.
- (b) Define Remote sensing. Enlist elements of Remote Sensing.  
Explain any *two* elements. [6]

*Or*

8. (a) What observations and precautions are necessary during Core  
Drilling for Preliminary Geological Exploration ? [7]
- (b) What is Landslide ? What are the causes of it ? [6]