

Total No. of Questions—8]

[Total No. of Printed Pages—2

Seat No.	
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**[5252]-510**

**S.E. (Civil Engineering)(Second Semester) EXAMINATION, 2017**

**ENGINEERING GEOLOGY**

**(2015 PATTERN)**

**Time : Two Hours**

**Maximum Marks : 50**

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

(ii) Neat diagram must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) Define Mineral. Explain in detail Hardness and Fracture properties of mineral. [6]

(b) Draw and describe types of unconformity. [6]

*Or*

2. (a) Give the classification of Igneous rocks based on mode of occurrence. [6]

(b) What is fault ? Explain Normal and Reverse Faults with neat sketch. [6]

3. (a) Explain various features developed due to river erosion. [6]

(b) Explain in detail surface geological Investigations. [6]

*Or*

4. (a) Describe Physiographic divisions of India with their engineering significance. [6]

P.T.O.

- (b) What is Remote sensing ? Explain uses of remote sensing in Civil Engineering. [6]
5. (a) Discuss the feasibility of dam site, with dipping and horizontal strata. [7]  
(b) Explain Preliminary Geological Investigations carried out for Tunneling. [6]
- Or*
6. (a) Explain influence of Geological conditions on choice of type of Dam. [7]  
(b) Proposed sites for excavation of tunnel are A-B and X-Y, passing through Axial and limb regions of fold respectively. Justify the suitability of sites. [6]
7. (a) Explain the Geological conditions favorable for natural springs and artesian wells. [7]  
(b) What is landslide ? Explain control measures of landslides. [6]
- Or*
8. (a) Explain various types of aquifers. [7]  
(b) What are the requirements of good building stone ? [6]