

Total No. of Questions—8]

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**[4957]-1010**

**S.E. (Civil Engineering) (Second Semester)**

**EXAMINATION, 2016**

**ENGINEERING GEOLOGY**

**(2012 PATTERN)**

**Time : Two Hours**

**Maximum Marks : 50**

- N.B. :—**
- (i) Write the answers to any *four* questions in single answer-book only.
  - (ii) Neat diagrams must be drawn wherever necessary.
  - (iii) Figures to the right indicate full marks.
  - (iv) Assume suitable data, if any.

1. (a) Define Minerals. Discuss in detail the Felspar and Mica Families of minerals. [6]
- (b) Write in brief the classification of Metamorphic rocks. [6]

*Or*

2. (a) Write in short the diagenesis process of sedimentary rocks. [6]
- (b) Write in brief the intrusive and extrusive Igneous rocks. [6]
3. (a) Draw and describe different types of unconformity. [6]
- (b) Write in detail the Gondwana system of Indian Stratigraphy. [6]

*Or*

4. (a) Write in brief different landforms formed due to deposition of River. [6]
- (b) Discuss the Joints ? Describe in detail how a fracture converts to faults. [6]

P.T.O.

5. (a) Write a note on applications of remote sensing in Civil Engineering. [6]  
(b) Explain in brief the importance of Preliminary Geological Exploration in Dam site selection. [7]

*Or*

6. (a) What problems may have to be faced while tunneling through the highly jointed rock ? [6]  
(b) Discuss in detailed about the engineering characters for the feasibility of reservoir at the area where amygdaloidal and tachylitic basalt is exposed. [7]
7. (a) What treatment will you propose to a dyke crossing longitudinal to a spillway of dam ? [6]  
(b) Write in detail the building stones. [7]

*Or*

8. (a) What are the causes of landslides ? [6]  
(b) Discuss in detail volcanoes. Write in short the products of Volcanoes. [7]