

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]

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Or

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