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**[4857]-1010**

**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 only.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right side indicate full marks.

(iv) Assume suitable data, if necessary.

**1.** (a) Define minerals. Discuss in detail the different families of minerals. [6]

(b) Write in brief the classification of Igneous rocks. [6]

*Or*

**2.** (a) Discuss in detail the different types of metamorphism and its rocks. [6]

(b) Write in short the diagenesis process of sedimentary rocks. [6]

**3.** (a) Draw and describe the disconformity and angular unconformity. [6]

(b) Write in detail the Cuddapah system of Indian stratigraphy. [6]

*Or*

**4.** (a) Discuss the different landforms formed due to deposition of River. [6]

(b) How are rocks folded ? Describe in detail various parts of fold and their types. [6]

P.T.O.

5. (a) Write a note on applications of remote sensing in watershed management. [6]
- (b) Explain in brief the importance of preliminary Geological Exploration in Civil Engineering projects. [7]

*Or*

6. (a) What problems may have to be faced while tunneling through dyke rocks running inclined to the tunnel ? [6]
- (b) Discuss in detail 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 geological work done by the groundwater. [7]

*Or*

8. (a) Discuss in detail volcanoes. Write in short the products of volcanoes. [6]
- (b) What preventive measures are to be taken against land-slides ? [7]