

**SUBJECT: APPLIED GEOLOGY**

Day : Saturday  
Date : 11/05/2019

S-2019-2552

Time : 02.30 PM TO 05.30 PM  
Max. Marks: 60.

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Draw neat labeled diagrams **WHEREVER** necessary.
  - 3) Assume suitable data, if necessary.
  - 4) Figures to the **RIGHT** indicate full marks.
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**Q.1** Explain with labeled diagram the details of interior of earth. (10)

**OR**

Describe products of volcanoes. (10)

**Q.2** Discuss in detail the requirements of good building stone. (10)

**OR**

Give grain size classification of sedimentary rocks with examples. (10)

**Q.3** What are faults? Describe in detail the types of faults. Also explain how a fold passes into fault. (10)

**OR**

Define unconformity. Discuss in detail types of unconformity. (10)

**Q.4** What is rejuvenation? Describe features resulted due to rejuvenation. (10)

**OR**

Explain in detail the depth zones of ground water and artesian well. (10)

**Q.5** Explain in detail Preliminary Geological Investigation for tunnel. (10)

**OR**

Discuss suitability of common rock types for tunneling with case history. (10)

**Q.6** Discuss Preliminary Geological Investigation for reservoir. (10)

**OR**

Discuss influence of nature and structure of rocks on bridge foundation. (10)

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