

B. TECH. SEM – III (CIVIL ENGG.) 2014 COURSE)
(CBCS) : WINTER - 2017

SUBJECT: APPLIED GEOLOGY

Day: **Monday**
Date: **15/01/2018**

Time: **10.00 AM TO 01.00 PM**

W-2017-2023

Max Marks: 60

N.B:

- 1) All questions are **COMPLUSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw figures **WHEREVER** necessary.

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- Q.1** Describe in detail with suitable diagram the interior of earth. **(10)**
OR
- a) What are the types of volcanic eruptions **(05)**
 - b) Explain seismic waves. **(05)**
- Q.2** Give in detail grain size classification of sedimentary rocks. **(10)**
OR
- a) Describe in detail decomposition of rocks. **(05)**
 - b) Differentiate felsic and mafic minerals. **(05)**
- Q.3** What are folds? Describe in brief various parts and types of folds. **(10)**
OR
- a) Explain normal and reverse fault. **(05)**
 - b) Describe the economic importance of Dharwar system. **(05)**
- Q.4** What is ground water? Describe the geological work done by ground water. **(10)**
OR
- a) Describe features resulted due to river erosion. **(05)**
 - b) Explain with diagram Incised meanders and river terraces. **(05)**
- Q.5** Describe in detail the preliminary geological investigations. **(10)**
OR
- a) Explain tunneling through anticline and syncline. **(05)**
 - b) Explain preliminary geological investigation for tunnel. **(05)**
- Q.6** Explain in detail preliminary geological investigation for bridges. **(10)**
OR
- a) Describe the conditions suitable and unsuitable for a reservoir site. **(05)**
 - b) Conditions suitable for location of Earthen Dam and Gravity Dam. **(05)**

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