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Total No. of Pages : 3

Seat  
No.

S.E.(Civil) (Part - II) (Semester - IV) Examination, December - 2015  
**ENGINEERING GEOLOGY (New Course)**

Sub. Code : 43588

Day and Date : Wednesday, 02 - 12 - 2015  
Time : 10.00 a.m. to 01.00 p.m.

Total Marks : 100

- Instructions :
- 1) Answer any three questions from Section -I and any three questions from Section - II.
  - 2) Answer to the two Sections must be written in one and same answer book.
  - 3) Figures to the right indicate full marks.

**SECTION-I**

- Q1) a) Write brief account of normal cycle of river erosion [8]  
b) Discuss the cooling of magma under Plutonic, Hypabasal & Volcanic conditions. [9]
- Q2) Write short notes on any four of the following [16]  
a) Central type of eruption  
b) Scope of Engineering Geology  
c) Pot holes  
d) Hardness of Mineral  
e) Ventifacts  
f) Processes of Chemical Weathering
- Q3) a) What is meant by Sedimentary rock? Give grainsize classification of sedimentary rocks. Draw a neat diagram and explain the formation of Clastic texture [9]

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- b) Explain in brief formation of stress & anti-stress minerals [4]

OR

- b) Draw a neat diagram and explain the formation of Schistose structure [4]

- c) Define any three of the following [3]

- i) Lava
- ii) Streak
- iii) Unconformity
- iv) Texture
- v) Metamorphism

- Q4) a)** Define fault. Explain with neat sketches Horst and Graban [5]

- b) Write short notes on any three of the following [12]

- i) Isoclinal fold
- ii) Genetic classification of joints
- iii) Loess
- iv) Porphyritic texture
- v) Angular Unconformity

### SECTION-II

- Q5) a)** Explain the procedure of preliminary geological investigations for on engineering site. [9]

- b) Write the various suitable geological conditions for construction of a dam [8]

- Q6) a)** What are causes of earthquake? Explain R.I.S. with suitable example. [9]

- b) Define landslide. Write the methods to prevent landslides. [8]

- Q7) a) Define water table. Describe the various zones of groundwater. [8]  
b) Write the unsuitable geological conditions for excavating a tunnel. [8]

Q8) Write short notes on any four of the following: [16]

- a) Observations during drilling.
- b) Causes of overbreak
- c) Requirements of good building stone.
- d) Core Recovery
- e) Isoseismal lines
- f) Suitable conditions for a reservoir site

