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S.E. (Civil) (Part - II) (Semester - IV) Examination, November - 2014
ENGINEERING GEOLOGY (New)

Sub. Code : 43588

Day and Date : Friday, 28 - 11 - 2014

Total Marks : 100

Time : 10.00 a.m. to 1.00 p.m.

- 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)** Describe in brief any four erosive features produced by river. [12]
b) Define Igneous rock. Give Hatch's scheme of classification. [5]
- Q2) Write short notes on any four of the following :** [16]
 a) Products of volcano
 b) Fold mountain
 c) Major relief features of earth
 d) Streak and cleavage of mineral
 e) Barchans
 f) Exfoliation
- Q3) a)** Describe formation of the following features / structures : [12]
 i) Porphyritic texture
 ii) Augen structure
 iii) Stratification

P.T.O.

- b) What is meant by sedimentary rock? Describe the formation of sedimentary rock by welding process. [4]

OR

Describe the process of de-dolomitisation.

- Q4) a) Define any four of the following : [4]

- i) Mineral
- ii) Weathering
- iii) Lava
- iv) Residual Deposit
- v) Limb of fold
- vi) Dyke

- b) What are folds? Explain with neat sketches any two types of folds : [5]

OR

What are faults? Describe with neat sketches the following terms.

- i) Fault line
 - ii) Hanging wall
 - iii) Hade
 - iv) Downthrow
- c) Write short notes on any two of the following : [8]
- i) Laccolith
 - ii) Types of Joints & it's engineering signification
 - iii) Types of Unconformity
 - iv) Horst & Graben

SECTION - II

- Q5) a) Explain the different causes of landslides and prevention of landslides. [9]
- b) What is an earthquake? Explain the various causes of an earthquake. [8]

- Q6)** a) Describe in detail the various factors controlling the occurrence of groundwater. [9]
b) What are the unsuitable geological conditions for the construction of dams? Write a note on dams on carbonate rocks. [8]
- Q7)** a) Explain the various steps in preliminary geological investigations for any engineering site. [9]
b) Describe the favourable and unfavourable geological conditions for locating a Reservoir. [8]
- Q8)** Write notes on any four of the following : [16]
a) Requirement of good building stone
b) Core recovery
c) Seismograph
d) Tunnel in folded strata
e) Zones of groundwater

