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RN-8187

B. E. - II (Sem. IV) (Civil) Examination

May / June - 2010

Engineering Geology

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :

B. E. - 2 (Sem. 4) (Civil)

Name of the Subject :

Engineering Geology

Subject Code No. : **8 1 8 7** Section No. (1, 2,.....) : **1&2**

Seat No. :

Student's Signature

(2) Answer the **two** sections **separately**.

(3) Draw sketches wherever necessary.

(4) Figures to the right indicate full marks for the questions.

(5) All questions are **compulsory**.

SECTION - I

1 (a) Define following terms : 5

(i) Streak

(ii) Hardness

(iii) Fault

(iv) True Dip

(v) Uncomformity.

(b) Explain crystal system. 8

OR

(b) Explain different branches of Geology.

- 2 Attempt the following questions :
- (a) Describe chemical weathering. 5
 - (b) Write short note on 'Earthquake waves' 5
 - (c) Explain 'Types of volcanoes'. 7

OR

- (c) Explain seismograph with neat sketch.
- 3 Write short notes on following : (any **four**) 20
- (i) Scope of Geology
 - (ii) Effects of Earthquake
 - (iii) Ground water Recharge
 - (iv) Plate tectonic
 - (v) Volcanic products
 - (vi) Aquifer.

SECTION - II

- 4 Attempt the following questions :
- (a) Explain 'Types of Faults'. 8
 - (b) Write short note on 'Geological map'. 7

OR

- (b) Explain 'Rock cycle' with neat sketch.
- 5 (a) Give 'Types of metamorphic Rock'. 8
- (b) Write short note on Remote sensing and GIS applications. 7

OR

- (b) Describe physical properties of minerals.
- 6 Write short notes on following : (any **four**) 20
- (i) Tunneling in different rock
 - (ii) Uses of unconformities
 - (iii) Parts of faults
 - (iv) Structures of Igneous rock
 - (v) Building stone.