



RM-6445

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

May / June – 2010

Engineering Geology & Building Materials

Time : 3 Hours]

[Total Marks : 100

Instruction :

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 2 (Sem. 4) (Civil)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Engineering Geology & Building Materials"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="4"/> <input type="text" value="4"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
	<input type="text" value="Student's Signature"/>

- (2) Answer the **two** sections on **two** different answer sheets.
- (3) Figures to **right** indicate full marks.
- (4) Assume suitable data wherever **necessary**.
- (5) Draw sketches wherever necessary.

SECTION - I

- 1 (a) State True of False : 5
 - (i) Petrology is the science of rocks.
 - (ii) Sedimentary rocks are formed from crystallisation of Molten material called magma.
 - (iii) Moh's scale is used to determine the hardness of a mineral.
 - (iv) Sandstone is an igneous rock.
 - (v) A fold is an undulation or bending produced in stratified rocks.
 - (b) Discuss physical properties of Minerals. 8
 - (c) Explain Textures of igneous rocks. 5
- OR**
- (c) Discuss causes of earthquake. 5

- 2 (a) Define following terms : (any **five**) 5
 (i) Fault
 (ii) Unconformity
 (iii) Dip
 (iv) Strike
 (v) Plutonic rock
 (vi) Epicentre.
- (b) Explain process of formation of sedimentary rocks. 5
- OR**
- (b) Give comparison between normal fault and reverse fault. 5
- (c) Discuss types of fold in detail. 7
- 3 Attempt any **three** from the following : 15
 (i) Causes of landslides.
 (ii) Types of joints
 (iii) Sill and Dykes
 (iv) Granite and conglomerate - A comparison
 (v) Horst and Graben.

SECTION - II

- 4 Attempt any **two** of the following. 14
 (i) Explain physical properties of cement.
 (ii) Write short note on 'Seasoning of timber'
 (iii) Explain dimensions and tolerance of bricks.
- 5 Attempt any **two** : 16
 (i) Give classification of Mortar.
 (ii) Explain 'Testing of Bricks'
 (iii) Describe manufacturing process of lime.
- 6 Write short note on any **four** : 20
 (i) Cement mortar
 (ii) Wood Based products
 (iii) Properties of paint
 (iv) Ferrous metal
 (v) Building tiles
 (vi) Properties of Timber.