

What is Civil Engineering?

What are the major divisions of Civil Engineering?

What are the functions of Civil Engineering profession?

Explain each type of infrastructure needed for the country and towns.

Explain the impact of civil engineering infrastructure on economic growth of the country.

What are the forms in which stones are used in civil engineering?

Give the geological, physical and chemical classification of rocks.

How are igneous rocks formed? Give two examples.

How are sedimentary rocks formed? Give two examples.

What are metamorphic rocks? Give a few examples of metamorphic rocks stating their origin.

What are good qualities of good building stones?

Explain any three tests performed on stones to find their properties.

What are the dimensions of ordinary bricks?

What are the dimensions of modular bricks?

What are the constituents of brick earth?

What are the operations involved in brick making? Explain each process.

What are qualities of good bricks?

What are the general uses of bricks?

Explain briefly any four types of tests conducted on bricks in the laboratories.

What are the field tests carried out to determine the qualities of the brick?

Explain classification of bricks based on their quality.

What is lime?

List the various uses of lime.

Explain the manufacturing process of cement

What are the different types of cements available? Explain each type briefly.

What is meant by '53 grade' cement?

What is meant by the setting of cements?

Explain the terms initial setting time and final setting time of cement.

What is initial setting time of OPC?

What is final setting time of OPC?

What are the properties of cements?

What are the uses of cements?

How does quick setting and rapid hardening cement differ from portland cement?

Write short notes on (i) Low heat cement (ii) Pozzolana cement (iii) Coloured cement and (iv) Expanding cement.

Draw and explain cross-section of a timber

What are the properties of good timber?

What is seasoning of timber?

What are good properties of sand?

What do you mean by bulking of sand?

Why is sand used in mortar and concrete.

Define fine aggregate?

What is coarse aggregate and its purpose in concrete?

What is mortar?

What are the different types of mortars?

State the important properties of cement mortar.

Briefly explain tests conducted on mortar.

What are the different types of concrete?

Explain RCC and its advantages.

What are the good requirements of RCC?