Model question paper

**EN 14 106: BASICS OF CIVIL AND MECHANICAL ENGG**

**Time : 3hrs Mark marks: 100**

**SECTION 1: BASICS OF CIVIL ENGINEERING**

**Part A**

Answer any Four (4 x 5 marks= 20 marks)

1. List and sketch five important market forms of steel sections.
2. What are the engineering properties of bricks?
3. What is meant by setting of cement?
4. Distinguish between Plane surveying and Geodetic Surveying.
5. Draw the crosses sectional view of a gravity dam and mark the parts.

**Part B**

(2 x 15 marks= 30 marks)

1. (a)Briefly explain seasoning. Explain various methods used in seasoning.

**OR**

1. What are the constituents of concrete? Explain the functions of reinforcement in a concrete beam.
2. (a)The following are the readings taken by a level 1.990, 2.010, 0.045, 0.965, 0.545, 1.205, 0.675, 0.865. The instrument has been shifted after the third and sixth reading. Enter the reading in a level book using the height of the instrument method and find reduced level of point. The reduced level of the first point is 110.00.

**OR**

(b)What are the different types of foundations? Explain the functions of foundations.