Time: 3 Hrs.

NOTE: Attempt any five Questions in all.

Q.1 (i) State any five ill effects of dampness.
      (ii) What are the objects of pointing.
      (iii) Under what circumstances will you go in for a) Collapsible Door b) Rolling Shutter

Q.2 (i) Mention the scales used for preparing the following
        a) Site plan, b) Building plan, c) For detailing functions of drawing.
      (ii) Sketch the elevation of a fully paneled door with two shutters.
      (iii) Describe the defects in patterning and preventive measures to be adopted for the same.

Q.3 (i) What is meant by "covered area" of a building explain with an example with the help of a sketch.
      (ii) What are the objects of building bye-laws?
      (iii) What are the requirements for the approval of a plan?

Q.4 (i) List out any five road making machineries and explain any two briefly.
      (ii) How are the water bound macadam roads maintain.
      (iii) Explain the steps involved in laying a bituminous? Single coat surface dressing road with a sketch?

Q.5 (i) State the requirements of good sleeper.
      (ii) State the necessities of maintaining railway track.
      (iii) Explain with sketches about a) Fish plates, b) Spikes.

Q.6 (i) State the different types of staircase.
      (ii) State the uses of escalator and lift.
      (iii) State and sketch any two types of foundations used in building.

Q.7 (i) State any five tools used in stone masonry work.
      (ii) What is a lintel.
      (iii) What types of flooring you will recommend for a Hospital Building. Why?