DRAUGHTSMAN (CIVIL)
(Theory)

Time : 3 Hours

Marks : 100

NOTE : Attempt any FIVE questions. All questions carry EQUAL marks.

1. (a) What are the Engineering characteristics of a good building stone ? Discuss.
    (b) What are the characteristics of good timber ? What is the object of seasoning the timber ?

2. (a) What is bearing capacity of soils ? Describe the various methods of improving the bearing capacity of soils.
    (b) Enumerate the various classes of rubble masonry.

3. (a) What are the requirements of a stair case in residential and public buildings ?
    (b) Explain how do you classify the doors and windows from view point of their operational movements.

4. (a) What are the advantages of using Asbestos-cement sheets as a roof covering for pitched roof ?
    (b) What is the principle of chain surveying ? What are the instruments used for chain surveying ?

5. (a) Explain briefly the different types of roads.
    (b) Differentiate between culverts and bridges.

6. (a) What are the essential ingredients of a plain cement concrete ? Describe the function of each in the cement concrete.
    (b) What do you understand by slump test ?

7. Write explanatory note on :
    (a) Types of Estimate
    (b) Gravity Dam
    (c) Manufacture of bricks
    (d) Types of sleeper in the railway track