

Trade: Architecture

Subject: (Engineering Drawing - II) -113

Paper -I

Foundation

Introduction, Objectives, Types - Shallow Foundation, Spread Footing Foundation, Grillage Foundation, Raft Foundation, Stepped Foundation, Deep Foundation - Pile and Well Foundation, Cause of Failure, Bearing Capacity of Soil, Safe Bearing Capacity of Soil.

Brick Masonry

Introduction of Bricks, Types of bricks - Burnt Clay Bricks, Hollow Bricks, Fire Bricks, uses of bricks, Characteristics of good bricks, technical terms - Header, Stretcher, Bat, Closer, King Closer, Queen Closer, Course, Joints, Lap, Classification of - brick masonry Bond, English and Flemish, Stecher, Header and Diagonal bond, Basket Weave Bond .

Water Supply and Sewerage System

Introduction of Water Supply Engineering, Layout of Canal System, Classification - Fully in Cutting, Partly Cutting and Partly in Filling, Fully in Filling, Technical term - Sewer, Sewage, Sullage, Storm Sewer, Sewerage , Traps and its types, Ventilating Pipe, Waste Pipe, House Connection, Inspection Chamber, Introduction of Open Drain, Types - Semi circular Drain, Rectangular, V-Shaped, U- Shaped, Types of Sewer - Circular, Egg-Shaped, Semi circular, Rectangular.

Commands of Auto CAD (2D) – Introduction, Basic Commands

Trade: Architecture

Subject: (Workshop Practice-II) -114

Paper -II

Leveling

Terms used in Leveling, Adjustments of the Level, Finding the Difference of Level of Two Points, Level Book, Errors in Leveling and their Prevention - Rise and Fall Method, Height of Collimation Method.

Plane Table Survey

Introduction, Advantages and Disadvantages, Instrument Used - Drawing Board, Drawing Sheet, Alidade, Tripod Stand, Spirit Level, Trough Compass, U-Folk, Waterproof Cover, Setting up and Working of Plane Table, General Instructions for Plane Table Surveying, Errors in Plane Tabling, Method - Radiation, Re-Section, Inter-Section, Traversing.

Contouring

Contour & Contouring, Characteristics, Contour Intervals, Horizontal Equivalent, Direct and Indirect Methods of Contouring - Radial Line Method, Cross - Section Method, Square Method, Use of Contour Maps.

Trade: Architecture

Subject: (Construction Material and Estimate) -115

Paper -III

Timber

Introduction of Important Indian Timber - Kail, Shisham, Deodar, Sal, Teak, Characteristics of Good Timber, Uses of Timber, Defects in Timber - Knots, Shakes, Twisted Grains, Rind Gall, Unsettled Grains, Seasoning of Timber - Natural, Water and Kiln Seasoning, Preservation of Timber By - Tarring, Painting and Polishing.

Building Estimates

Introduction of Estimates Types of Estimate - Approximate, Cubical Content, Plinth Area, Detailed, Revised, Maintenance Estimate, Standard Method - Centre Line Method, Separate Wall Method of Taking out Estimate of Quantity, Labour and Material, Numerical about Estimate of Single Room, Analysis of Rates For Simple Items of Works, Specifications - Detail and Brief Specifications.