

2.16 30282 BUILDING CONSTRUCTION

UNIT-1 INTRODUCTION

- 1.1 Define Building
- 1.2 Classification of building based on occupancy
- 1.3 Explanation of different parts of building

UNIT-2 BUILDING MATERIAL

- 2.1 Define building materials
- 2.2 Classification of building material
- 2.3 Objective of building material.

UNIT-3 FOUNDATION

- 3.1 Concept of foundation
- 3.2 Factors affecting selection of foundation
- 3.3 Definition and importance of bearing capacity
- 3.4 Types of foundation: shallow and deep
- 3.5 Causes of failure of foundation

UNIT-4 WALLS

- 4.1 Purpose of walls
- 4.2 Types of walls
- 4.3 Partition walls
- 4.4 Cavity walls

UNIT-5 BRICK MASONRY

- 5.1 Definition related to brick masonry
- 5.2 Types of bonds
- 5.3 Construction of brick walls method of laying brick in walls.

UNIT-6 STONE MASONRY

- 6.1 Definition related to stone masonry
- 6.2 Dressing of stone: hammer dressing and chisel dressing
- 6.3 General principles for construction of stone masonry
- 6.4 Different types of stone masonry

UNIT-7 SCAFFOLDING, SHORING AND UNDERPINNING

- 7.1 Application of different types of shores and scaffolding
- 7.2 Meaning and need for underpinning

UNIT-8. DAMPNESS AND ITS PREVENTION

- 8.1 Causes of dampness and principles of its prevention
- 8.2 Material commonly used for damp proofing

8.3 Damp proof course.

8.4 Anti termite treatment for building before and after construction.

UNIT-9 BUILDING BY LAWS

9.1 study of building by laws as per 1256-1967

9.2 Terminology related to residential building, building permit occupancy, certificate, unsafe building, enforcement code, offence and penalties.

9.3 Health sanitation, and other requirement, means of access, open space requirements, plinth area, projections, covered area in residential plots.

9.4 Distance from electric line, plinth regulation, height regulations, lighting and ventilation, construction of water cosset.

UNIT-10 SITE SELECTION

10.1 Selection of site for a Building and building complex

10.2 Comparative study for sites way respect to local topography, flooding site access location.

10.3 Communication links with surrounding availability of water and electricity, prevailing wind, made up grounds, water table, trees etc.

Reference Book:

1. Building construction by Sushil Kumar

