

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

CONSTRUCTION MATERIALS AND CONSTRUCTION PRACTICE

Paviath ONLINE

◆ CIVIL POLY ◆ II YEAR III SEM ◆ CODE CEM32

OMPLETION OF THE COURSE, THE STUDENT WILL BE FAMILIAR

- DIFFERENT CONSTRUCTION MATERIALS AND THEIR PROPERTIES
- DIFFERENT TYPES OF CEMENT, GRADES OF CEMENTS AND TESTS ON CEMENT.
- DIFFERENT TYPES OF MODERN BUILDING MATERIALS SUCH AS CERAMIC PRODUCTS, GLASS, METALS AND PLASTICS
- METHOD OF PREPARATION OF MORTAR AND CEMENT CONCRETE. STATE THE DIFFERENT TYPES OF STRUCTURES.
- CLASSIFICATION OF STONE MASONRY & BRICK MASONRY. STATE
- TYPES OF FLOORS AND ROOFS.
- DIFFERENT METHODS OF POINTING, PLASTERING AND TERMITE PROOFING.
- SCAFFOLDING, SHORING & UNDERPINNING AND FORM WORK.
- PROCEDURE OF COLDUR WASHING, WHITE WASHING, PAINTING AND VARNISHING.

CONSTRUCTION PRACTICE 3.1 INTRODUCTION TO STRUCTURES

3.1 INITIOUDLITUR I D STRUCTURES — LIFE OF STRUCTURES — SUB STRUCTURE — SUPER STRUCTURE — LOAD BEARING STRUCTURE — Framed Structure — concept of Framed Structure — Advantages of Framed Structure.

DEFINITION - COMMON TERMS USED - HEADER, STRETCHER, BED JOINT, LAP, PERPEND, CLOSER, KING, QUEEN & BEVELLED. BAT -JUINI, JAP, PERPEND, CLUSER, KINS, BUEH, B BEVELLED, BAI —
PERMISSIBE I LADOS IN BRICK MASDINEY - BOINO - TYPES — HEJOER,
STREICHER, ENGLISH BOND O FLEMISH BOND - DNE BRICK THICK,
AND ONE AND A HALF BRICK THICK—"I"—JUNCTION IN ENGLISH BOND
—POINTS TO BE CONSIDERED IN THE CONSTRUCTION OF BRICK
MASDINEY — DENITY BOND MASDINEY—OFFECTS IN BRICK MASDINEY—
MAINTEMANCE OF BRICK MASDINEY—REINFORCEO BRICK MASDINEY—
MAINTEMANCE OF BRICK MASDINEY—REINFORCEO BRICK MASDINEY—
PURPOSE — ITS ADVANTAGE WITH RESPECT TO STRENGTH AND
ENGRIPHILIANE GEOGRAPHICS. FARTHOLIAKE RESISTANCE

CONSTRUCTION MATERIALS

1.1 INTRODUCTION

PHYSICAL PROPERTIES OF MATERIALS — DENSITY, BULK DENSITY, SPECIFIC GRAVITY, POROSITY, WATER ABSORPTION, PERMEABILITY, CHEMICAL RESISTANCE, FIRE RESISTANCE, WEATHERING RESISTANCE, THERMAL CONDUCTIVITY, DURABILITY, (DNLY DEFINITIONS)

1.2 ROCKS AND STONES

ROCKS - CLASSIFICATION OF ROCKS - GEOLOGICAL PHYSICAL AND Chemical Classification - USES OF Stones - Reduirements of a good building Stone - Natural and Artificial Stones For Flooring - Examples (Detailed Description not required)

DEFINITION - BRICK EARTH - COMPOSITION OF GOOD BRICK EARTH -Manufacturing process - Classification of Bricks -Properties of Bricks - Special Types of Bricks and Their USES - Compressive Strength of Bricks -Tests on Bricks -GRADES AND CORRESPONDING REQUIREMENTS OF BRICKS AS PER

CONSTRUCTION PRACTICE
4.1 DOORS, WINDOWS AND VENTILATORS

STANDARD SIZES OF DOORS AND WINDOWS - LOCATION OF DOORS AND WINDOWS - DIFFERENT MATERIALS USED - DOORS -Component Parts - Types - Framed and Panelled - Gazed FLUSH, LOUVERED, COLLAPSIBLE, ROLLING SHUTTER AND SUDING DOORS – WINDOWS – TYPES – CASEMENT, GLAZED, BAY, CORNER PIVOTED CIRCULAR AND DORMER WINDOWS – VENTILATORS – DEFINITION - PURPOSE - TYPES - VENTILATOR COMBINED WITH

WINDOWS 7 DUDIES.

42 HOLLOW BLOCK CONSTRUCTIONS
HOLLOW BLOCKS - ADVANTAGES OF HOLLOW BLOCKS - LDAD
BEARING AND NON-LDAD BEARING HOLLOW BLOCKS - OPEN CAVITY
BLOCKS - FACE SHELLS. WEB, GROSS AREA NOMINAL DIMENSIONS OF BLOCKS, MINIMUM THICKNESS OF FACE SHELLS AND WEB, Grades of Hollow Concrete Blocks - Materials USED, ADMIXTURES ADDED — MIXING, MOULDING, PLACING AND COMPACTING, CURING, DRYING — PHYSICAL REQUIREMENTS — USE OF LIGHT WEIGHT AGGREGATES - HOLLOW CONCRETE (HOLLOW BLOCK) MASONRY - CONSTRUCTION OF WALLS - ADVANTAGES OF

DEFINITION - PROPERTIES AND USES OF MORTAR - TYPES OF MORTAR – CEMENT AND LIME MORTAR – MIX RATIO OF Cement Mortar for Different Works.

DEFINITION – CONSTITUENTS OF CONCRETE – MANUFACTURING PROCESS – BATCHING - PROPERTIES OF FRESH CONCRETE – VARIOUS TEST ON FRESH CONCRETE – PROPERTIES OF HARDENED CONCRETE – VARIOUS TEST ON HARDENED CONCRETE - TYPES OF CONCRETE 2.3 PAINTS AND VARNISHES

DEFINITION - FUNCTIONS OF PAINT - TYPES OF PAINTS AND THEIR USES - OIL, ENAMEL, EMULSION, DISTEMPER, CEMENT, ALUMINIUM, BITUMINOUS AND PLASTIC PAINTS - VARNISHES - DEFINITION - CHARACTERISTICS OF A GOOD VARNISH -INGREDIENTS OF VARNISH - TYPES OF VARNISH AND THEIR USES -DIL, TURPENTINE, SPIRIT AND WATER VARNISH.

1. P.C.VARGHESE, "BUILDING MATERIALS", PRENTICE-HALL OF INDIA (P)LTD, I EDITION, 2011 2. S.K.DUGGAL, "BUILDING MATERIALS", NEW AGE INTERNATIONAL (P) LTD., II EDITION, 2003. REFERENCE BOOK:

I. S.C.RANGWALA, "BUILDING MATERIALS", CHAROTAR Publishing House, VII Edition, 1982. 2. P.C.Varghese, "Building Constructions", PRENTICE-HALL OF INDIA (P) LTD., I EDITION, 2011. 3. DR. B.C. PUNMIA, "BUILDING CONSTRUCTION", LAXMI PUBLICATIONS (P) LTD NEW DELHI. 4. S.C.RANGWALA, "BUILDING CONSTRUCTION" CHAROTAR PUBLISHING HOUSE, VII EDITION.

5. ASHOKKUMAR JAIN, "BUILDING CONSTRUCTION". LAXMI PUBLICATIONS (P) LTD CHENNAI. 6. IS 2185 PART I 8 II



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MATHS ILLUSTRATION - GEOMETRY EXPRESSIONS



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