

Mahatma Education Society's

PILLAI'S COLLEGE OF ARCHITECTURE

K.M. VASUDEVAN PILLAIS CAMPUS, Sector-16, New Panvel, Navi Mumbai

II YR B.ARCH - REGULAR EXAM - APRIL-2012

SUBJECT—BUILDING CONSTRUCTION

Dt-04/04/2012

TIME : 3 HRS

Section A

MARKS : 70

Note:

- Labeling and dimensioning of each detail is essential.
- Use any suitable scale.
- Two sections are to be answered separately.
- Q.1 is compulsory and solve any TWO from the remaining.

Q.1 Draw details to explain the following (anyTWO) (20)

- a. Sleeper wall construction.
- b. Draw detail at the foot of a queen post.
- c. Draw detail of a cavity wall from foundation to roof level where cavity continues till parapet wall.
- d. Detail of Gibbs and Cotter joint.

Q.2 Draw sectional elevation of a king post truss span of 6m. (25)

OR

Draw plan of a double joist timber floor for a room of size 12mx6m.

Q.3 Draw plan ,elevation and section of a partly glazed and partly panelled double shutter door of size 1.2mx2.1m. (25)

OR

Draw a sectional elevation of a single flight staircase in timber to reach a height of 2.1m with the details of joinery.

Q.4 Suggest a suitable partition for a Doctor's cabin. Draw elevation and a detail of joinery to explain it. (25)

OR

Suggest a suitable suspended ceiling for a Jewellers shop for 20 sq m area.

(Please Turn Over)

Note: Solve any **THREE** questions.

Questions carry equal marks.

Please illustrate wherever required.

Q.1. Answer any two (2) of the following;

- a. Explain Granite and marble stone as a floor finishing material.
- b. Describe IPS type of floor finish.
- c. Explain compressed and MDF boards.

Q.2. a. Explain in detail corrugated metal sheet as a roofing material with diagram showing its placement.

b. What are Paints? Explain its various ingredients.

Q.3. Give Brief answers to the following:

- a. Classification of plywood and its market forms.
- b. Advantages and Disadvantages of using timber as a building material.
- c. Treatments done on wooden furniture.

Q.4. Short notes based on compositions, types and application methods (any2)

- a. Acrylic Paints.
- b. Polish on Wood.
- c. Composite stone flooring.