

Mahatma Education Society's

PILLAI'S COLLEGE OF ARCHITECTURE

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

SECOND YR B.ARCH

REGULAR EXAM.

APRIL 2010

BUILDING CONSTRUCTION AND MATERIAL

Duration-3hrs

100 marks

Note:

All the drawings should have dimensions and labeling.

Assume data wherever required.

Section A and section B are compulsory.

SECTION-A

70 MARKS

Q.1 Suggest suitable detail drawings of the building elements for a multi purpose hall of size 12m x 6m x 4.5m . (any SEVEN) in the form of plan/section/elevation/detail/joinery as suitable/required.

1. Detail of cavity wall from foundation to terrace.
2. A door with a ventilator.
3. Combination of openable and fixed window.
4. Suitable flooring detail in plan only.
5. Junction of all the members at the head of the king post truss.
6. Staircase to reach upto a height of 2.1m.
7. Suitable partition in combination of timber and glass.
8. Inverted plan of a suspended ceiling.
9. Gibbs and cotter joint.
10. Detail at the foot of a queen post truss.

SECTION-B

MARKS: 30

- All questions are compulsory
- Please illustrate wherever required

Q1) Write short notes on any two (10)

- a) Glass as a roofing Material
- b) Alucobond
- c) Bamboo
- d) RCC

Q2) Explain the process of seasoning of timber. Briefly describe any two methods of seasoning of timber. (5)

Q3) Attempt any two: (10)

- a) Explain and describe briefly the characteristics of ideal paint also explaining its covering power.
- b) Write a short note on Mangalore tiles, their properties
- c) Define flooring. Explain stone flooring and wooden flooring.

Q4) Draw and label a section through an asbestos sheet roof, clearly showing the method of fixing the same. (5)

OR

Write a short note on "Bhunga" and draw a section through it explaining the various materials and their applications and fixing techniques.