

April - 09

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 2009

SUBJECT: BUILDING CONSTRUCTION AND MATERIAL

Dt- 08 /04/2009

Hrs - 3

MARKS-100

SECTION-A

70 MARKS

Note: All questions carry equal marks.  
Labeling and dimensioning for each detail is essential.

Q.1 Give the details of the following: (any SEVEN)

1. Junction of all the members at the head of the king post.
2. Draw sleeper wall detail.
3. Draw a single flight staircase in timber to reach a height of 2.1m.
4. Suggest a suitable partition for a director's cabin.
5. Suggest a suitable suspended ceiling for a jewelers shop.
6. Draw a plan of appropriate floor in timber for a hall of size 6m x 10m.
7. Draw a detail of cavity wall from foundation to terrace.
8. Draw a section of a door with ventilator of height as 2.6m.
9. Draw an elevation of a window of size 1.5m x 1.2m.
10. Draw detail at the foot of the queen post.

Pg - 07

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PILLAIS COLLEGE OF ARCHITECTURE  
Second B. Arch Examination, April 2009

Section - B

Building Materials

dt. 8-4-09

Max. Marks: 30

Note: Illustrate your answers with neat sketches wherever necessary  
All questions are compulsory and carry equal marks

- Q1. Describe in Detail any 2 of the following (10)
- I. Indian Vernacular Architecture and its 3 broad categories
  - II. Ekra Construction Technology
  - III. Bhunga
  - IV. Application and maintenance of red oxide as a flooring material
- Q2. Give brief answers to the following (any 2) (10)
- I. Advantages and Disadvantages of using timber
  - II. Methods of preservation of Timber
  - III. Market forms of Timber
  - IV. Defects in timber
- Q3. Answer any 2 of the following (10)
- a) Define paint and state the characteristics of an ideal paint
  - b) Explain the process of Distempering
  - c) What are metallic, non-metallic and water washable paints
  - d) Write a short note on ceramic tiles, mosaic tiles and cement tiles
  - e) Explain the characteristics of glass as a roofing material