B. Arch.
(SEM. IV) EXAMINATION, 2006-07
CONSTRUCTION & MATERIALS - IV

Time : 3 Hours] [Total Marks : 50

Notes : (1) Answer four questions, of which question no. 1 is compulsory.
(2) Use an appropriate scale for drawing.
(3) Dimensioning and labelling should be done in all drawings.
(4) Assume any missing data.
(5) Stationary supplied - 02 cartridge sheets only. Attempt your answer accordingly.
(6) Be precise in your answers.

1. A sloping single roof is proposed over a room of size 4.5 m and 3.0 m high. Present your scheme with all relevant plans, elevations, sections, and isometric of two fixing / joinery details. Choice of material should be judicious.

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2. Attempt any two of the following. Support your answer with neat sketches.
   (a) Explain artificial adhesive and its various forms in brief.
   (b) Discuss the laying process of ‘Mangalore tiles’ on a roof.
   (c) What is laminate? How it is manufactured?

3. Explain the advantages of timber partitions over brick partitions. Design a partly panelled partly glazed partition in timber for an opening of size 3.0 m x 3.0 m with one door.

4. Identify different types of roofing systems. Explain the triple roofs and their various forms in detail. Explain with neat sketches.

5. Write short notes on any two of the following:
   (a) Advantages of compressed straw board
   (b) Properties and uses of rubber adhesives
   (c) Concrete tiles roofing.

6. Write short notes on any two of the following:
   (a) Asbestos cement sheets plain and corrugated.
   (b) Differentiate between thermoplastic and thermosetting adhesives.
   (c) Decorative and commercial plywood.