



Printed Pages : 2

AR-402

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 8543**

Roll No.

### **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 **20** 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.

V-8543]

1

[Contd...

2. Attempt any **two** of the following. Support your answer with neat sketches. **10**
- (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. **10**
4. Identify different types of roofing systems. Explain the triple roofs and their various forms in detail. Explain with neat sketches. **10**
5. Write short notes on any **two** of the following : **10**
- (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 : **10**
- (a) Asbestos cement sheets plain and corrugated.
  - (b) Differentiate between thermoplastic and thermosetting adhesives.
  - (c) Decorative and commercial plywood.