

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

PAPER ID: 181402

Roll No.

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**B. Arch**

CARRY-OVER EVEN SEMESTER EXAMINATION, (2017-18)

**CONSTRUCTION AND MATERIALS-IV****Time: 3 Hours****Total Marks: 50**

Note:

1. Answer ANY **FOUR** questions, of which question no. 1 is **compulsory**.
2. Use an appropriate scale for drawing.
3. Dimensioning and labeling should be done in all drawings.
4. Assume any missing data.
5. Stationary supplied-04 cartridge sheets only.
6. Be precise in your answers.

1. A sloping single roof is proposed over a room of size 4.5M and 3.0M high. Present your scheme with all relevant plans, elevations, sections, and isometric of two fixing / joinery details. Choice of material should be judicious. **20**

**OR**

A partition of size 3.6m wide and 3.3m high (without door) is proposed between the account section and reception. Present your scheme with all relevant plans, elevations, sections and isometric of two fixing/ joinery details. Choice of material should be judicious.

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. Differentiate between any **TWO** of the following: **10**

- a. Veneers and Laminates
- b. Clay tile and Concrete tile
- c. Trussed roof and Framed roof

4. Differentiate between any **TWO** of the following:

- a. Thermosetting Adhesive and Thermoplastic Adhesive
- b. Ply board and Fiber board
- c. Aluminum sheet and Galvanized Iron sheet

5. Write short notes on any **Two** of the following: **10**

- (a) Advantage 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.