



Seat No. \_\_\_\_\_

**HAH-161001010302**

**B. Arch. (Sem. III) Examination**

**May - 2023**

**Building Materials & Construction - III**

Time : 2 / Total Marks : 50

**Instruction :**

1. Answer should be specific with related explanatory text and diagrams.
2. All diagrams should be neat and clean with proper scale.
3. All diagrams must have appropriate title, subtitle, label, dimensions etc.
4. Use bullet point or key sentence to give answer rather than paragraph.

**1** State the following statements are TRUE or FALSE. Justify **20**  
with short explanation :

- (1) Transom is horizontal member of Window.
- (2) Thickness of stile in door shutter is always same as bottom rail.
- (3) Endogenous trees trunk have outward growth.
- (4) Metal shoes used in door frame to prevent moisture from the floor or plinth.
- (5) King post truss use to avoid condition of hammer brace.
- (6) Tie in king post truss is used to prevent thrust.
- (7) In traditional "Barshak", "Todla" is just for visual appearance.
- (8) Holdfast is used to hold and fast the wooden frame with wall
- (9) A fixed louvered window doesn't control the light to pass through.

**OR**

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**1**

**[ Contd...**

**1** Explain the following joints with Isometric sketches. (Any Five) **20**

- (1) Tenon & Mortise joint
- (2) Bridle joint
- (3) Lengthen joint
- (4) Housing joint
- (5) Dove tailed joint
- (6) Tongue & Groove joint

**2** Write Short note with Neat sketches : (Any two) **10**

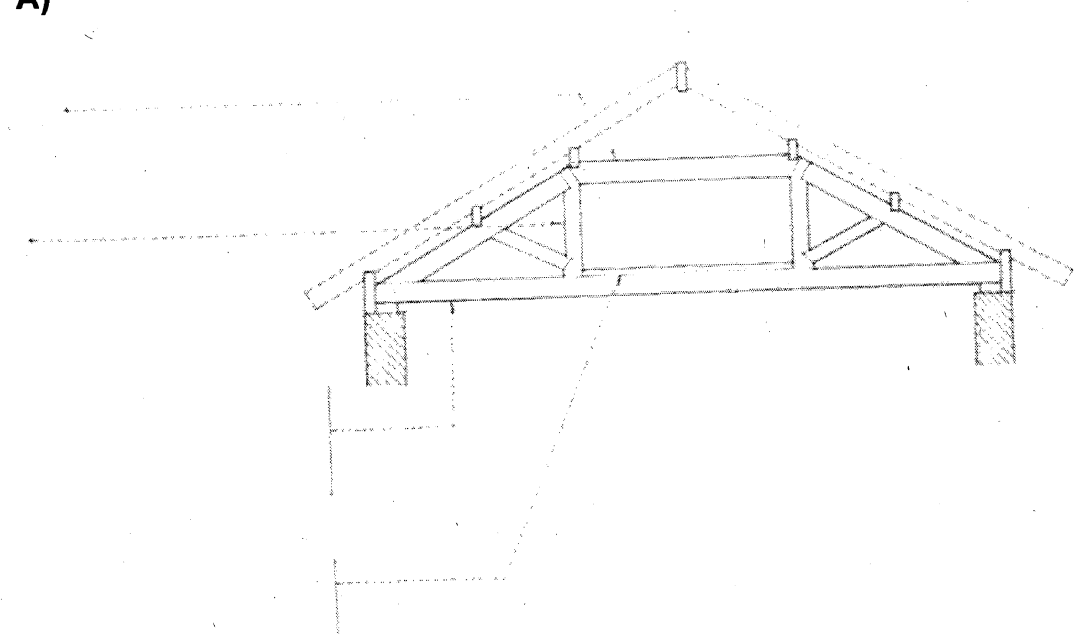
- (1) Role of strut in king post truss
- (2) Discuss different types of floor board joints.
- (3) Junction between Lock Rail and Stile of door Shutter

**3** Draw straight flight of wooden stair having 2 mt floor Rise and give nomenclature to its component **20**

**OR**

**3** Identify and Discuss in detail the following Timber construction with respect to their components **20**

**A)**



**B)**

