



DAU-161001010302

Seat No. _____

B. Arch. (Sem.-III) Examination

May - 2022

Building Materials & Construction - III

Time : 2 Hours]

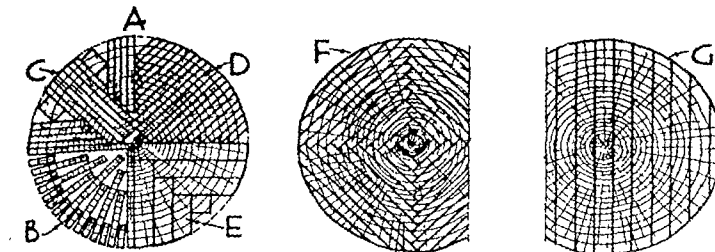
[Total Marks : 50

- Instructions :**
- (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 in paragraph.
 - (5) Answer any five (5) questions out of following six(6) questions.

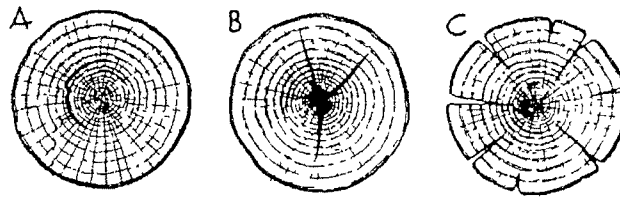
- 1** State whether the following statements are TRUE or FALSE. **10**
Justify with short explanation (Any Five)

- (1) Mullion is horizontal member of window.
- (2) Thickness of stile is always same as kick (bottom) rail.
- (3) Exogenous trees trunk have outward growth.
- (4) King post truss use to avoid condition of hammer brace.
- (5) Tie is always in pure tension in truss.
- (6) In traditional "Barshak", "Todla" is just for visual appearance.
- (7) Holdfast is used to hold and fast the wooden shutter with wooden frame.

- 2** Discuss following with detail : **10**
(A) Identify and discuss the conversion type of Timber.



- 3 Discuss following with detail : 10
Identify and discuss defects in Timber.



- 4 Write short note with neat sketches. (Any one) 10
(1) Discuss importance of "Todlo" in Barshakh
(2) Role of strut in king post truss
- 5 Sketch the following. (Any two) 10
(1) Junction of Wooden Stringer Beam and Trimmer beam with Newel Post.
(2) Wall and Floor Junction (Wall plate, Joist and Planks)
(3) Junction between Lock Rail and Stile of door Shutter frame
- 6 Discuss "Wood" as versatile building material. 10
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