



Seat No. _____

HAB-161001010702

B. Arch. (Sem. VIII) Examination

May - 2023

Building Material and Construction-VII

Time : **2:00** Hours / Total Marks : **50**

Instructions : Support your answer with necessary example and / or sketches, wherever necessary.

- 1** Design a covering system with the advance structural system **15**
area to be covered-250 sq.mt.
 - (1) Draw schematic diagram of structural system.
 - (2) Draw various joinery and Junction detail.
 - 2** Describe the following with the basic principles of the system, **15**
definitive components of the system building examples (any three)
 - (a) Suspension OR cable stay
 - (b) Folded plate
 - (c) Tensile structure
 - (d) Shell structure
 - (e) Geodesic
 - (f) Double cable
 - 3** Write a note on any two of following. **10**
 - (a) Pre Engineered Building System.
 - (b) Sky scraper structural system.
 - (c) Tensegrity.
 - (d) Pre Stressed & post tensioning.
 - 4** Discuss role of the advance building construction system in **10**
large span building construction.
- OR**
- 4** Explain attributes of structural system. **10**

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[70 / 2 – 1]