



**DAP-8191**

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

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

**May - 2022**

**Building Material-VI**

Time : 2 Hours]

[Total Marks : 80

1 State whether the following statements are true or false, 40  
justify with short explanation : (Any **eight**)

- (1) The distance between two brick piers is normally 3-4 ft and was known as "Dajji- Diwari"
- (2) The gap in between each "Taq" would be filled in with either small wooden piece or mud mortar
- (3) Cost of hinged and pivotal window will be determined by cost of materials only
- (4) Masonry is strong in tension but weak in compression during earthquake.
- (5) Filler slab and Precast hollow concrete slab have similar structural behavior
- (6) Long column attracts larger horizontal force while short column attracts smaller horizontal force during Earthquake
- (7) Kath Kuni construction typically involves patchwork of timber and dressed stone
- (8) During earthquake there is no role of stirrups in rigid RCC frame.
- (9) The structural element of Pre engineered building has greater efficiency than conventional structural building
- (10) Metal can be used to prevent structural failure of wooden beam.

**2** Brief discussion on the following : (Any **one** bulleted point only with neat sketches) **20**

- (1) The role of Earthquake Resistant Vernacular Architecture in Kath Kuni construction system.
- (2) Traditional House form is not just about construction, climate, culture and applied forces but amalgamation of all aspects.

**3** Brief discussion on the following : (Any **one**) **20**

- (1) Alternative roof construction systems have greater importance in present practice of construction system.
  - (2) Advantages and disadvantages of Pre-engineered building system and Pre-cast concrete construction system.
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