



M-8191

Seat No. _____

B. Arch. - 3 (Sem. VI) Examination

May / June - 2018

Building Material - VI

Time : **2 Hours**]

[Total Marks : **80**

Instructions :

- (1) Answer following question with bulleted points only.
- (2) Use appropriate sketches and diagram where ever possible.

1 State whether the following statements are true or false : **30**

Discuss your stand on the statement with suitable argument with neat sketches : (any **five**)

- (1) '*Kath-kuni*' construction is irrelevant in, region without slat stone.
- (2) Wood is truly sustainable material.
- (3) In '*Taq*' construction, *5-Taq* means five structural bays.
- (4) Flat arch don't have failure mechanism.
- (5) Constructing masonry dome with form-work is stupidity.
- (6) Low-cost architecture is wholly dependent on low-cost building materials.

2 Write short notes on the following with neat sketches : **30**
(any **two**)

- (1) Earthquake details in load bearing construction.
- (2) Advantage of the Nubian Vault construction.
- (3) State the comparison (in points) between Pre-engineered building vs. conventional steel building.

3 Discuss any one at length : **20**

Concept of reusing building materials in response to Resources management and sustainability in architecture.

OR

Draw Alternative to classical details in construction and discuss with considering building expression and role of material - construction in contemporary time.