



**PAU-10764**

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

**B. Arch. (Sem. IX) Examination**  
**October / November - 2018**  
**Building Material & Construction - VIII**

Time : 2 Hours]

[Total Marks : 80

- Instructions :** (1) Contextual understanding will be considered critically in assessment.  
(2) Support your stand/standard with relevant examples and sketches.

- 1** Write short notes on any six of the following issues **30**  
(with appropriate sketches)
- (1) Desirable physical properties of masonry unit
  - (2) Principle of stone masonry
  - (3) Structural logic of designing "Tenon and mortise" joint
  - (4) Desirable properties of building materials
  - (5) Cementitious materials in concrete across history
  - (6) Reuse and recycle of construction waste
  - (7) Differences between filler slab and waffle slab
  - (8) Earth concrete

- 2** Discuss concept of alternative flat floor construction with examples and its relevance to contemporary architectural practice **20**

**OR**

- 2** Discuss role of Roman engineering innovation in the development of Roman cities as well as civilization as a whole. **20**

- 3** Discuss evolution of structural ideas and constructional details in gothic architecture with the help of wall section. **30**

**OR**

- 3** Write a note on work of contemporary architect (whose work focuses on large span systems) and their architectural ideas. **30**