



J-10764

Seat No. _____

B. Arch. (Sem. IX) Examination

November - 2019

Building Material - VIII

Time : 2 Hours]

[Total Marks : 80

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

- 1 Write short note on any four of the following topics : **40**
(a) Difference between hinged arch and portal.
(b) Efficient shape of simply supported beam.
(c) Castellated girder/ beam.
(d) Change in technology and change in architecture.
(e) Concept of pre-stressed arch and its application in building.
(f) Nubian vaulting technique and its relevance today.
(g) Roof purlins and corrugated sheet in flat and singly curved planes.
- 2 Give illustrative classification of structural system (first write chosen parameter of classification clearly) **20**
- 3 Write a critical note on role of traditional construction techniques in your design practice, today and / or in future. **20**

OR

Following diagram of structure illustrate different load condition, identified structural behavior, role of structural elements and explain importance of joints in this building

