

J-10764

Seat No. _____

B. Arch. (Sem. IX) Examination November - 2019 Building Material - VIII

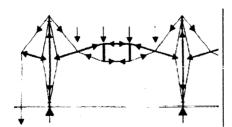
Time: 2 Hours] [Total Marks: 80

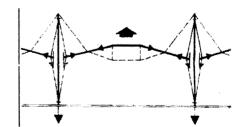
Instructions: (1) Contextual understanding will be considered critically in assessment.

- (2) Support your stand/statement with relevant examples and sketches.
- 1 Write short note on any four of the following topics: 40
 - (a) Deference 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)
- Write a critical note on role of traditional construction 20 techniques in your design practice, today and / or in future.

OR

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





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