



BBK-161001010105

Seat No. _____

B. Arch. (Sem. I) Examination

July - 2021

Structure - I

Time : 2 Hours]

[Total Marks : 50

1. State whether the following statements are true or false (Any Five) 10

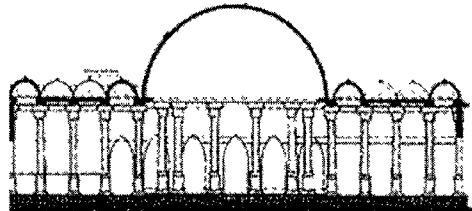
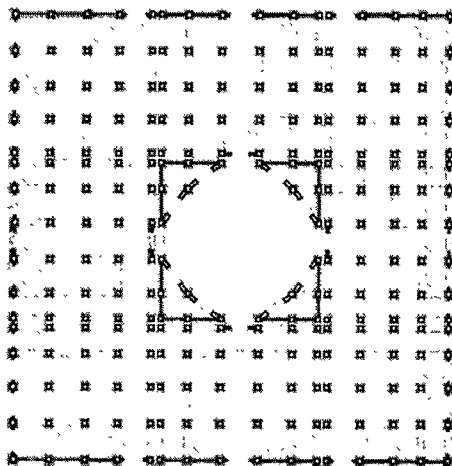
1. Post is an essentially linear compression element, subject to crushing or buckling, depending upon its relative slenderness.
2. Lintel is Generally a structure for spanning an opening designed to support a Vertical load and to resist shear and bending stresses
3. Slab is considered as a rigid planner structural element.
4. The mechanics of forces applied to bodies, which are not moving. They are considered to be in static equilibrium.
5. Rigid frame and post & lintel system are same as per structural system
6. Suspended bridge is the example of non-rigid structural system

2. Explain with neat sketches or diagrams (Any Four) 20

1. Stress
2. Shear
3. Compression
4. Co-planner concurrent forces
5. Co planner Non co-linear forces

3. Find the Following (Any two) 20

1. Identify and Discuss the system adapted in below mentioned building plan and section



2. Discuss any one system having rigid and Non rigid structural element
3. Discuss various forces and types (any Four)