



DDD-8191 Seat No. \_\_\_\_\_

**B. Arch. (Sem. VI) Examination**

**May / June – 2015**

**Building Material - VI**

Time : 2 Hours]

[Total Marks : 80

- 1 Explain the following terminologies : (any Eight) 40**
- (1) Buoyancy
  - (2) Soft story effect
  - (3) Pin joint
  - (4) Short column effect
  - (5) Centre of Gravity
  - (6) Base Isolator
  - (7) Truss
  - (8) Raft foundation
  - (9) Arched foundation
  - (10) Waffle slab
- 2 State whether the following statements are true or false, 40**  
justify with short explanation : (any ten)
- (1) System of superstructure is not affected by the soil condition.
  - (2) Weaker mortar helps to absorb the energy generated during earthquake in "Dajji —Diwari" system.
  - (3) All the flood prone areas have to have solid high plinths.
  - (4) Lateral forces generated by earthquake and heavy wind have same effects on the building.
  - (5) Braced frames are stiffer than rigid (moment resisting) frames.
  - (6) Buoyancy is only valid in liquid state.

- (7) Non-structural elements have role in performance of building in earthquake.
  - (8) Dry construction system are always costlier than wet construction.
  - (9) Bamboo is the material which resists only compression.
  - (10) Bamboo is the material which resists only tension.
  - (11) Brick vault construction is not possible without form work.
  - (12) Pin joint can resist moment in only one direction.
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