

B.Arch. Seventh Semester (Architecture Engineering) (CGS)
10057 : Advance Construction - I : 7 AR 01

P. Pages : 1

Time : Four Hours



AU - 2962

Max. Marks : 80

- Notes :
1. Question No. **one** is compulsory.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Retain the construction lines.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain with sketches the origin & causes of Earthquake? 10
- b) Explain the failure mechanism of Masonary & framed structures during Earthquake? 10
2. Explain & draw to a suitable scale the types of 'Caisson' foundations? 20

OR

3. Explain & draw to a suitable scale the types of foundations you will suggest for a ten storey structure in loose soil conditions? 20
4. Design & draw a curtain wall which is partly fixed & partly openable for a public building having dimensions 12 m in width and 16 m in height. Draw to a suitable scale the following : 20
 - a) Key plan & Elevation.
 - b) Detail sectional plan showing details.
 - c) Detail Elevation.
 - d) Vertical section showing fixing details.
 - e) Any view of fixing details.

OR

5. a) Explain with sketches the curtain wall sections & structural glazing sections with fixing details. 10
- b) Explain with sketches the remedial measures for R.C.C. framed structures to with stand the Earthquakes? 10
6. Explain with sketches **any two** of the following. 20
 - a) Modular Co-ordination & its multipurpose purpose?
 - b) Base isolator & seismic damper's?
 - c) Architectural glass systems?
