

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

P. Pages : 1

Time : Fours Hours



AV - 3081

Max. Marks : 80

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

1. Explain and draw to suitable scale the types of 'Caisson foundation'. **20**
2. a) Explain with sketches the origin and causes of Earthquake. **10**
b) Explain the failure mechanism of Masonry and framed structure during Earthquake. **10**

OR

3. a) What do you understand by Retrofitting explain with example and sketches. **10**
b) Give the remedial measures in terms of planning, designing, material & techniques for earthquake resistant structure. **10**
4. a) Explain with sketches the curtain wall sections and structural glazing sections with fixing details. **12**
b) Explain draw the sketches of various metal casement fixing fixtures available in market to restrain the curtain wall. **8**

OR

5. Draw to a suitable scale the design of curtain wall for a mall having elevation height & width 10 m × 15m respectively with following details. **20**
a) Key plan and Elevation
b) Sections in plan Elevation
c) Detail Elevation
d) Any two Enlarge details.
6. a) What is the necessity to study modular co-ordination in todays context. Explain? **10**
b) Explain modular coordination and it's purpose. **10**

OR

7. a) Architectural glass system. **10**
b) Base isolator and seismic dampers?
