

B.Arch. Semester - VII (CGS)
10057 - 7 AR 01 : Advanced Construction - I

P. Pages : 1

Time : Four Hours



AR - 2297

Max. Marks : 80

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

1. a) Explain the importance of load bearing capacity of soil? 5
b) Explain with suitable scale the foundations required in water logging regions? 15
2. Explain & draw to a suitable scale the type of combine foundations you will suggest for a ten Storey building having dimensions 18mx24m in black cotton soil? Draw the sectional plan & sectional Elevation & view to a suitable scale? 20

OR

3. a) Explain with sketches the origin & causes of earthquakes? 10
b) Explain with sketches the Retrofitting of earth quake affected structures? 10
4. a) Explain in detail the failure mechanism of structures during earth quake? 15
b) Explain the importance of standardisation of building elements. 5

OR

5. Explain with sketches the remedial measures in term of planning, designing, material & techniques in earthquake prone regions? 20
6. a) Explain in detail the Purpose of modular Co-ordination in terms of Architecture? 15
b) Explain with sketches the Glass fixing details? 5

OR

7. Draw a curtain wall for a shopping mall having dimension 15 min width & 20 m in height? Draw the drawing to a suitable scale of the following. 20
 - a) Detail sectional plan showing all structural details with dimensions.
 - b) Draw detail elevation.
 - c) Detail sections
 - d) View of fixing detail.
