

B.Arch. Seventh Semester (Architecture)
Advanced Building Construction - I : 7 SA 2

P. Pages : 1

Time : Three Hours



AU - 3134

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Question No. 5 is compulsory.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Use of pen Blue/Black ink/refill only for writing book.

1. Suggest a foundation for a building having eight storey and located near railway station. Design and draw the suitable foundation for the building to suitable scale. Show the following construction details. 20
- i) Key plan with dimensions.
 - ii) Any two enlarge details.

OR

2. a) What do you mean by RCC shell structure and it's construction techniques from historical Perspective. 13
- b) Describe the space frame structure with sketches. 7
3. a) What do you mean by Retrofitting. Explain the retrofitting for a column which is damaged in Earthquake. 12
- b) What are the remedial measures in terms of planning and designing techniques for earthquake resistance structure. 8

OR

4. Design and draw a temporary structure for exhibition space which is located to your area, with details of shops, ticket counter, food court, etc. Consider the exhibition space dimension as per your requirement and draw to suitable scale. Also show the following. 20
- i) Key plan of exhibition space with shops, ticket counter and food counter.
 - ii) Details showing joinery and specify the material used.
5. Explain the following with neat sketches **any four**. 20
- a) Draw Schwedler and Geodesic dome.
 - b) Standardization of building elements.
 - c) Why it is necessary to study modular co-ordination.
 - d) Explain and draw caisson foundation.
 - e) What do you mean by folded plate structure in RCC. Explain with sketches.
 - f) Draw the section of swimming pool with specify different height and levels from ground level.
