



AR - 2493

B.Arch. Semester - VIII

**8 SA 2 : Advanced Building
Construction - II**

P. Pages : 2

Time : Three Hours

Max. Marks : 60

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- Notes :
1. All question carry equal marks.
 2. Answer **three** questions.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary
 5. Retain the construction lines.
 6. Illustrate your answer necessary with the help of neat sketches.

1. a) Elaborate the idea about large span structure & 10
High rise structure with construction aspects.
b) State the various and appropriate uses of 10
portal frame. Elaborate your answer with the
help of neat sketches.

OR

2. Design and draw a curtain wall or structural 20
glazing system for Hospital building which is 3
story high. The facade size is 10 x 15m. Draw
the following to suitable scale;
i) Plan showing position of glazing.
ii) Enlarged plan with support system.
iii) Enlarged vertical section showing glass
fixing and support system.

3. a) Explain with sketches the idea about cost effective techniques used in construction. 12

b) Explain various techniques of low cost construction available or used for roofing. Elaborate with neat sketches. 8

OR

4. a) Explain various types of pre cast building elements with construction techniques, which are available in market. 10

b) Give comparative study between precast and cast in situ construction. 10

5. a) What are the requirements of a good formwork? Why formwork is necessary? 8

b) What is shoring? Under what circumstances they are required? 6

c) What is the criteria for underpinning? 6

OR

6. a) Explain tensile structures and it's advantages. 5

b) Explain different techniques adopted generally for sound insulation in multiplex cinema. 5

c) Discuss merits and demerits of high rise structures. 5

d) Give advantages & disadvantages of pre – stressed concrete. 5
