

B.Arch. (Sem.-VII) Examination

AR 702

Advance Building Construction

May-2017

Time : 2 Hours]

[Max. Marks : 50

INSTRUCTIONS:

- 1) Attempt all question.
- 2) Figures on the right indicate full marks.
- 3) Draw neat sketches wherever required.
- 4) Assume suitable additional data if required.

Q1. Attempt All Of The Following

[09]

- a) Describe lift slab method
- b) Explain the process of slip form construction of high rise structures.
- c) What are the advantages and disadvantage of Slip form and lift slab construction .

Q2. Attempt Any Two

[08]

- a) Explain Terminology: repairing, retrofitting, restoration,
- b) Explain Retrofitting/strengthen the building.
- c) Discuss any with neat sketches jacketing, Fibre reinforced plastic, epoxy coating,

Q3 Attempt Any Two

[08]

- a) Orientation of building for winter and summer sun.
- b) Passive devices working of solar chimney and Trombe walls
- c) Working of: Earth bunding and Earthship.

Q4. Attempt All Of The Following

[09]

- a) Awareness regarding Construction waste.
- b) Types of Construction waste? And how it is to be handled.
- c) Reduce. Reuse. Recycle. 3R explain the concept with example.

Q5. Attempt Any Two

[08]

- a) Explain PDCA cycle and QC.
- b) What are the safety measures Norms to be followed on the site.
- c) Enlist various points for responsibility of Architect, engineers and contractor for QC

Q6. Attempt Any Two

[08]

- a) Explain pre-stress and prefabricated concrete
 - b) Explain advantages of using sandwich insulated panel in prefabricated structure
 - c) Explain self supporting roof system of long span.
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