

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) NOVEMBER - 2016

B. ARCH III YEAR V SEMESTER

BUILDING CONSTRUCTION (BC-5)

Maximum Marks – 100

Time – 3.00 Hours

*a) Answer any Four questions out of 1 to 7 questions.*

*b) Question No. 8 is compulsory and answer any four out of six sub-questions.*

- Q1. Suggest suitable flooring for  
a) An automobile industry located in the industrial area in Vijayawada. (20M)  
b) Verandah in a residence located in Vijayawada.  
Support the answers with suitable sketches and details of the same.
- Q2. What is Scaffolding? Explain different types of scaffolding with neat sketches. (20M)
- Q3. What is the necessity of doing a structural appraisal before renovating a building? What are the causes for problems in foundation and methods to strengthen the same? (20M)
- Q4. Draft or Sketch the details of false ceiling for an entrance lounge (of a hotel) of size 5.0M x 4.5M. The drawings should include reflective ceiling plan, section and any two details. (20M)
- Q5. Sketch or draft Plan, Section and two details of a large span roof truss. (20M)
- Q6. What are the precautions to be taken while constructing a cavity wall? Sketch the detail of a cavity wall with proper labelling in plan, Elevation and Section. (20M)

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Q7. Sketch the construction details of a cavity wall at sill, lintel and roof levels (pitched and flat) with proper labelling. (20M)

Q8. Write short notes on any FOUR of the following: (4x5 = 20M)

- a) Sketch details of tile flooring.
- b) Sketch North light roof truss, stating its advantages.
- c) Define various components of Scaffolding.
- d) Explain Underpinning with neat sketch.
- e) Horizontal or flying shoring (with neat sketches)
- f) Precautions to prevent dampness in a cavity wall.

