

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
B. ARCH, I YEAR - I SEMESTER EXAMINATION (REG), DECEMBER - 2014
Building Construction (BC – 1)

Maximum Marks – 100

Time – 3.00 Hours

- a) Answer any Five questions;*
b) Question NO. 8 is compulsory.

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- Q1. Explain the differences between Random Rubble Masonry (Coursed) and Ashlar Masonry with the help of sketches. (20)
- Q2. Draw a neat diagram of a typical building and label all the parts. (20)
- Q3. Write five properties and five applications each of Cement and Glass in Building Construction. (20)
- Q4. Explain the role of "Roof" in a building by classifying on the basis of material used, type and geometry. (20)
- Q5. List five functions of Foundation and show various types of 'Loads' with the help of a diagram. (20)
- Q6. Mention five properties of a good Brick. Differentiate between English bond and Flemish bond. (20)
- Q7. Draft Plan, Elevation and Isometric view of 1 – brick thick English bond of L – junction to 1:10 scale, considering the nominal thickness of wire – cut bricks. (20)
- Q8. Write short notes on any Four of the following: (4 X 5 = 20)
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|--------------------------------|-------------------|
| (i) Hip roof and Gable roof | (iv) Queen closer |
| (ii) Queen post roof truss | (v) Header bond |
| (iii) 'Mix' of Cement Concrete | (vi) Toothing |