

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

B. ARCI II YEAR IV SEMESTER EXAMINATION (REGULAR), MAY 2015

BUILDING CONSTRUCTION (BC-4)

Maximum Marks – 100

Time – 3.00 Hours

- a) Answer any Five questions;
b) Question No. 8 is compulsory.
c) Explain with neat sketches wherever is necessary

- Q1. What is Vernacular Architecture? List the factors influencing Vernacular Architecture? List out various materials used in Vernacular construction. Explain any two along with techniques. (20)
- Q2. Explain different forms of Earth Construction? Explain any three types in detail with neat sketches? (20)
- Q3. Design a Stilt Bamboo House in 100 sqft area for extreme Northeast climatic condition. Explain it by suitable joinery details. (20)
- Q4. Compare advantages and disadvantages of Fly Ash Bricks with Conventional Bricks. Explain any two types of fly ash bricks with neat sketches. (20)
- Q5. Sketch and Explain the CSEB block that you have designed. Give its interlocking layouts, corner joints, T-Sections, lintels etc (20)
- Q6. Sketch and explain the steps involved in thatch roof construction using coconut leaves. (20)
- Q7. Explain in detail the process of stabilized rammed Earth wall with appropriate sketches. (20)
- Q8. Write short notes on *any four* of the following (4 X 5 = 20)
- Stabalised mud blocks.
 - Frameless doors and windows.
 - Kutchha and Pucca Bamboo house.
 - Hollow core fly ash bricks.
 - Advantage and disadvantages of paper crete.
 - Sketch and explain how thatch can be used as wall partitions.