

# SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

B. ARCH, II YEAR IV SEMESTER EXAMINATION (SUPPLEMENTARY)-JULY 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. Classify various types of Bamboo houses based on their structure. Explain with the help of suitable joinery detail, any one of the traditional Bamboo house. (20)
- Q2. What is fly ash and what are the various sources of raw-material? Explain various types of fly ash bricks with suitable sketches with dimensions. (20)
- Q3. What is adobe construction? Explain various tests recommended to check the resistivity of the earth. (20)
- Q4. Explain low cost construction techniques used at foundation level, bonding of walls, openings (doors and windows) (20)
- Q5. Agricultural waste as an alternative building material. Justify the statement with suitable sketches. (20)
- Q6. What is CSEB? What are its advantages and describe about its manufacturing process, soil composition and construction techniques. (20)
- Q7. Sketch and explain the various steps involved in thatch roof construction using reeds. (20)
- Q8. Write short notes on *any four* of the following (4 X 5 = 20)
- Raw material used for thatch roof construction.
  - Explain how CSEB is different from mud construction.
  - Solid core fly-ash bricks.
  - Wattle and daub walling.
  - Eco brick.
  - Rice and clay slip.