

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) NOVEMBER - 2016

B.ARCH II YEAR III SEMESTER

BUILDING MATERIALS AND CONSTRUCTION - III (10110306)

Maximum Marks – 50

Time – 2.00 Hours

a) Answer any Two questions out of I to 4 questions.

b) Question No.5 is compulsory and answer any four out of six sub-questions.

c) Brief Answers and Explanation with Sketches will be appreciated.

- Q1. Explain in detail any one type of Door (or) Window with appropriate Sketches, Labelling & Dimensions. Also, explain the different materials used with details of fixtures and fastenings for the same. (10+5)
- Q2. What is Under-reamed pile foundation? Explain in detail the construction of Under-reamed Pile foundation with Sketches, Labelling and Dimensions. Write the causes of failures of Foundation in brief. (10+5)
- Q3. What is Damp-proof course? Where and how is it used? Indicate the type of water proofing treatment you would like to recommend for a flat RCC roof in Hot and Humid region. (5+10)
- Q4. What is Deep Excavation? What are the precautions to be taken in deep excavation? Explain Needle Scaffolding and Flying Shore with sketches. (5+10)
- Q5. Write short notes on any FOUR of the following: (4x5= 20M)
- a) Advantages of Steel window over a Wooden window?
 - b) Transom (add sketches).
 - c) Combined footing.
 - d) Efflorescence.
 - e) De-watering and different techniques of De-watering.
 - f) Ventilator and places where Ventilators are used.
