

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
B. ARCH I YEAR - I Sem. SUPPLEMENTARY EXAMINATION, Jan. 2014

SUBJECT: BC-1: BUILDING CONSTRUCTION

Maximum Marks – 100

Time – 3.00 Hours

Instructions:

- *Any **FOUR** questions from **PART-A**, any **TWO** questions from **PART-B** and any **ONE** question from **PART-C***
- *Use Drawing Sheet and Drafting equipment for Question no. 9*
- *Answers should be written neatly and legibly*

PART – A: (Answer any FOUR questions)

40M

- Q1. Write any **Two** of the following with neat sketches (2 X 5 =10)
a) Verge b) English Bond c) R.C.C. d) Eaves
- Q2. Explain 'Roof' in the context of building construction and enlist the requirements of a good roof. (10)
- Q3. Explain the manufacturing process of Brick in Bulls Trench Kiln (10)
- Q4. Define Foundation and write about the need for foundation. (10)
- Q5. Write the properties and uses of Sand (10)

PART – B: (Answer any TWO questions)

30M

- Q6. What are the properties of a good brick? Enlist the possible defects in Brick masonry. (15)
- Q7. Classify the types of foundation in detail and explain any **Three** types of foundation. (15)
- Q8. Explain the types of Lime and list the respective properties. (15)

PART – C: (Answer any ONE question)

30M

- Q9. Draft Plan, Elevation and Isometric View for

a) *One-and-a-half brick English Bond* **OR**

b) *One-and-a-half brick T- Junction*

Scale= 1:10