

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH - SEMESTER- I • EXAMINATION – SUMMER 2014

Subject Code: 1015003

Date: 27-05-2014

Subject Name: Building Construction-1

Time: 2:30 PM to 5:30 PM

Total Marks: 40

Instructions:

1. Attempt any Four questions.
2. Make suitable sketches wherever necessary.
3. Figures to the right indicate full marks.

Q.1 Draw/Draft to Scale 1:20 10

A typical 230 thick brick wall section of load bearing structure with rcc slab – from foundation to parapet top of a single stored building.
Show and indicate all the main levels, dimensions, terms and terminology, thickness of the wall, structure/non structural elements, projections if any – all other intricate details, inside/outside of the building wall section.

Q.2 Draw/Draft to Scale 1:10

(a) Draw a plan & Elevation of right angle corner (“L”) Junction of one and half brick wall in Flemish bond – showing odd and even courses – minimum 3 courses of each. 05

(B) Explain detached pier & Attached pier in English bond with relevant sketches. 05

Q.3 Attempt any Two of the following with relevant sketches. 10

- (a) Write Comparison Between clamp Burning & Kiln Burning.**
- (b) Mention various tests subjected to Bricks.**
- (c) Composition of Good Brick Earth.**

Q.4 Attempt any one of the following with relevant sketches 10

- (a) Explain Method of seasoning. Advantage – Disadvantage with relevant sketches in Timber.**
- (b) Explain Types advantages & disadvantages of mud construction with relevant sketches.**

Q.5 Attempt the following with relevant sketches. 10

- (a) Explain Types of Stone Masonry with relevant sketches.**
- (b) Explain various types of Bamboo Wall with Sketches.**
