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 baring structure with rcc slab – from foundation to parapet top of a single stored building.
Showandindicateall the main levels,dimensions,terms andterminology,thickness of the wall, structure/nonstructuralelements, 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 & dis advantages 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.

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