

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH - SEMESTER– III • EXAMINATION – WINTER • 2014

Subject Code: 1015003

Date: 23-12-2014

Subject Name: Building Construction-1

Time: 10:30 am to 01:30 pm

Total Marks: 50

Instructions:

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

- Q.1 (a)** Draw 230 mm thick wall section of a single storied building and denote all necessary parts from top to bottom. **04**
- (b)** Draw isometric view of stretcher bond and rat trap bond **04**
- Q.2 (a)** Draw / draft to scale - 1:10 **04**
An elevation and section of 350 mm thick flint rubble masonry
Size of the wall panel in elevation. Height - 1500 and Width - 1000 mm
- (b)** Explain detached piers and attached piers in English bond with relevant Sketches. **04**
- Q.3** Attempt any two of the following **08**
- (a)** Write comparison between clam burning and kiln burning.
- (b)** Write advantages and disadvantages of mud construction.
- (c)** Draw isometric view of 3/4th bat and double king closer brick.
- Q.4** Attempt any two of the following **08**
- (a)** Explain various types of bamboo wall with sketches.
- (b)** Define
- (1) Header
- (2) Lap
- (3) Queen closer
- (4) Perpend
- (5) Sap wood
- (c)** Explain all defects of timber
- Q.5 (a)** Explain three lengthening and three widening joints in wood **04**
And explain four types of joints in stone masonry.
- (b)** Define brick bond and enlist various types of brick bonds and sketch One of the bond. **04**
