

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BARCH - SEMESTER- I • EXAMINATION – WINTER 2016

Subject code: 1015003

Date: 30/12/2016

Subject Name: Building Construction - I

Time: 10:30AM – 01:30PM

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (08 marks)

Q.1 Attempt any 2 with relevant sketches **(08)**

(a) Define the following:

(i) Header, (ii) Bat , (iii) Frog , (iv) King Closer

(b) (i) Classification of Rocks

(ii) Enlist the types of Igneous stones with examples

(c) (i) Discuss with examples hard wood and soft wood.

(ii) Defects in Timber

Q.2 (a) Draw isometric view of queen closer
and

Double mitred closer.

(04)

(b) Write short note on any two:

(04)

(1) Qualities of good brick

(2) Preservation of bamboo

(3) Adobe technique of mud construction

(4) Discuss sedimentary rocks with examples.

Q.3 Write a short note on:

(a) Burning of bricks

(08)

Or

(a) Seasoning of timber.

Q.4 (a) Draw plans and elevation of 2 brick thick wall
in English bond (08)

Or

(a) Draw plans and elevation of 2 and ½ brick thick wall
in Flemish bond

Q.5 Attempt any two (08)

- (a) Compare - Load Bearing Structure and Frame Structure
- (b) Sketch any four carpentry joints.
- (c) Sketch any four types of Bamboo joints.
- (d) Compare - Cob vs Wattle and Daub – mud construction
- (e) Sketch any 2 types of the rubble stone masonry
- (f) Define Brick masonry and Stone masonry.
