

GUJARAT TECHNOLOGICAL UNIVERSITY
BPLAN- SEMESTER– 2 EXAMINATION – SUMMER 2016

Subject Code: 1015503**Date: 01/06/2016****Subject Name: Materials and Principle of Construction****Time: 02.30PM-04.30PM****Total Marks: 50****Instructions:**

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

- Q.1 (a)** Attempt any 5 in one or two sentence **05**
1. What is limestone?
 2. What are the components of Bricks?
 3. What are Bricks and it's Standard Sizes?
 4. What are the physical Properties of Timber?
 5. What is Timber decay?
 6. What is the malleable property of Metal?
- (b)** Short questions **05**
- 1) manufacturing process of brick
 - 2) manufacturing process of glass
- Q.2 (a)** Difference between softwood & Hardwood. **05**
- (b)** Enlist types of cement & its chemical properties **05**
- OR**
- (b)** What are the advantages and disadvantages of using bricks? **05**
- Q.3 (a)** List properties and uses of Granite, marble, stone, kota, brick, cement **05**
- (b)** Write production process of lime. **05**
- OR**
- Q.3 (a)** Explain process of extraction of timber and Draw Cross-section of Timber. **05**
- (b)** Write notes on manufacturing process of glass. **05**
- Q.4 (a)** Write notes on advantages and disadvantages of timber **05**
- (b)** Enlist various types of glass. **05**
- OR**
- Q.4 (a)** Define following components of building in single sentence. (any five) **05**
lintel, Plinth, Foundation, Parapet, Sill, Coping
- (b)** Enlist various types of cement. **05**
- Q.5 (a)** Draft a wall section. **05**
- (b)** Differentiate load bearing structure and frame structure. **05**
- OR**
- Q.5 (a)** What is the manufacturing process of brick? **05**
- (b)** What is Cement, types of cements & its properties? **05**
