

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ARCHITECTURE– SEMESTER – II • EXAMINATION – SUMMER 2014

Subject Code: 3326203**Date: 16/06/2014****Subject Name: CONSTRUCTION TECHNOLOGY II****Time: 10:30 am - 1:00 pm****Total Marks: 50****Instructions:**

1. Assume data wherever necessary.
2. Give sketches wherever necessary.
3. Attempt all questions.

- Q.1** Draw to a scale of 1:10, the plan and section of timber flooring at the first floor level, to be constructed over a 3.66 x 4.54 m room which has all four walls of 230mm. Give approximate sizes of wooden supports. **10**
- OR
- Q.1** Draw to a scale of 1:10, the plan, section and elevation of a single paneled door in an opening size of 1000 x 2100 mm which is partly paneled and partly glazed.
- Q.2** (a) Explain in brief the manufacturing process of plywood, block board, veneers and laminates, their properties and application. **05**
- OR
- (a) Write short note on any two: **05**
1. Seasoning of Timber
 2. Types of Glass
 3. Weather shed
- (b) Define any five : **05**
1. Sashes
 2. Ridge
 3. Ceiling beam
 4. Balustrade
 5. Winders
 6. Hip rafter
 7. Wall plate
- OR
- (b) Explain in detail King Post roof in detail with all sketches. **05**
- Q.3** (a) Differentiate between Single floor and double floor **05**
- OR
- (a) Differentiate between Gable window and Dormer window with sketch. **05**
- (b) State briefly the requirements of a good Staircase. **05**
- Q.4** (a) Write down the uses and application of non-ferrous metals. **05**
- OR
- (a) Write down the characteristics of a good Paint. **05**
- (b) Explain in brief the Grillage foundation with sketch. **05**

- Q.5** 1. Answer all the questions. **06**
- (a) What are cavity walls and partition wall?
 - (b) What is Water Closet (WC)? Which are the different types of WC?
 - (c) What is Anti-siphonage pipe? Explain with the help of sketch.
2. Write Short note on Any 2: **04**
- (a) Float Valve
 - (b) S-Trap, P-Trap, Q-Trap
 - (c) Couple roof
 - (d) Doglegged Stairs
