

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

Subject Code: 140602**Date: 12-06-2013****Subject Name: Building Construction****Time: 10:30am – 01:00pm****Total Marks: 70****Instructions:**

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

Q.1 (a) What are the different types of boring methods? Explain any two in detail. **07**
(b) Explain various types of shallow foundation. **07**

Q.2 (a) Describe setting out of foundation trenches. **07**
(b) What are the different types of foundation in black cotton soil? Explain any one in detail **07**

OR

(b) Differentiate between plain cement concrete and R.C.C. Explain normal mix and design mix of concrete. **07**

Q.3 (a) Describe cast-in-situ and pre-cast construction. **07**
(b) Classify the arches based on material and workmanship. Explain stone arches with sketch. **07**

OR

Q.3 (a) Compare stone masonry and brick masonry. **07**
(b) What are the different types of composite masonry? Explain reinforced brick masonry. **07**

Q.4 (a) Explain dutch bond and ranking bond with sketch **07**
(b) Describe framed and panelled doors and write salient features. **07**

OR

Q.4 (a) Classify the stairs and explain half turn stairs. **07**
(b) Enlist the materials used for construction of floor finish and write the factors that affect their selection. **07**

Q.5 (a) Explain general fire safety requirements for buildings. **07**
(b) Compare steel roof truss and timber roof truss. **07**

OR

Q.5 (a) Explain different types of plaster finishes. **07**
(b) What are the various types of scaffolding? Describe single and double scaffolding with sketch. **07**
