

**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**

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