

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-IV Examination-Nov/Dec-2011

Subject code: 140602

Date: 28/11/2011

Subject Name: Building Construction

Time: 02.30 pm -5.00 pm

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) Differentiate between pre-cast and cast-in situ construction. **07**
Write advantages and disadvantages of pre-cast construction.

(b) What are the different types of bonds in brickwork ? Explain **07**
English bond with neat sketches.

Q.2 (a) Write causes of failure of foundations and remedial measures. **07**

(b) What are the different types of boring methods ? Explain each in **07**
brief with neat sketches.

OR

(b) Classify various types of windows based on nature of operation **07**
or opening and explain any two in brief.

Q.3 (a) Classify and explain various types of arches based on material **07**
and workmanship.

(b) Define cavity wall. What are its advantages ? Explain method of **07**
construction of it.

OR

Q.3 (a) Describe common acoustical defects in auditorium and write **07**
recommended remedies.

(b) Explain fire resisting properties of common building materials. **07**

Q.4 (a) State requirements of a good stair case in brief and explain **07**
continuous stairs

(b) Enumerate various types of materials used for construction of **07**
floor base and flooring. Explain factors that affect the selection
of flooring materials.

OR

Q.4 (a) Draw a neat sketch of jack arch floor of bricks. Explain its **07**
method of construction.

(b) Classify different types of timber floors and explain each in brief **07**
with help of sketches.

Q.5 (a) Differentiate between pitched roofs and flat roofs. Write **07**
advantages and disadvantages of flat roofs.

(b) What are the various types of flat terraced roofing ? Explain lime **07**
concrete terracing with tile.

OR

Q.5 (a) Define underpinning. Explain pit method of underpinning with **07**
sketch.

(b) What is difference between plastering and pointing ? Explain **07**
various types of pointings with sketches.
