

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 140602**Date: 01/06/2017****Subject Name: Building Construction****Time: 10:30 AM to 01:00 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) What is the difference between stone masonry and brick masonry? **07**
(b) Describe different kinds of rubble masonry with neat sketches. **07**
- Q.2** (a) What are the causes of failure of foundation? Explain its remedial measures. **07**
(b) Explain classification of buildings based on occupancy. **07**
- OR**
- (b) Write the purposes of site exploration. Explain in brief any two methods for site exploration. **07**
- Q.3** (a) Describe components of building in brief. **07**
(b) Explain any two with sketch: **07**
1. Slopped footing
2. R.C.C. Lintel
3. Header Bond and Stretcher Bond in brick masonry
- OR**
- Q.3** (a) Discuss the problems of foundation in black cotton soil. Explain its remedial measures. **07**
(b) Describe the following types of stairs with line diagram. **07**
1. Open well stair
2. Dog legged stair
3. Quarter turn stair
- Q.4** (a) Define stair and explain requirements of good stair. **07**
(b) Classify various types of doors. Describe flush door in detail. **07**
- OR**
- Q.4** (a) Enlist different types of windows. Explain skylight and ventilators. **07**
(b) Describe factors affecting selection of size, shape and location of window. **07**
- Q.5** (a) What are the factors affecting selection of a floor? Explain the essential requirements of floor. **07**
(b) Define shoring, underpinning and scaffolding with sketch. **07**
- OR**
- Q.5** (a) What are different kinds of wall finishes? Explain plastering in brief. **07**
(b) What are the special treatments for buildings? Explain any one in detail. **07**
