

GUJARAT TECHNOLOGICAL UNIVERSITY
BArch- SEMESTER- 6 EXAMINATION – SUMMER 2016

Subject Code: 1065002**Date: 06/05/2016****Subject Name: BUILDING CONSTRUCTION -VI****Time: 10.30AM – 01.30PM****Total Marks: 40****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Supplement your answers with neat and scaled sketch wherever necessary
5. All sketches should be properly labeled.

- Q.1** Explain the following terms (any four) **08**
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|-----------------------|------------------------|---------------------|
| 1. Beam Jacketing | 3. High Speed Elevator | 5. Service Duct |
| 2. Stone-crit plaster | 4. Pitch of the ramp | 6. Exposed Concrete |
- Q.2** (a) Differentiate between the requirements of Surface finish between the internal surface and the external surface of the building. **04**
- (b) Write and explanatory note on the types of finishes applicable for the ceiling of a building. **04**
- OR**
- (b) Write and explanatory note on the types of polishing and varnishing and its significance in modern building construction. **04**
- Q.3** (a) Explain the mechanism of central Air-conditioning of a floor in a high rise building in India. **04**
- (b) Explain the term “Elevator”, enlist the types of elevators and explain the parameters to be considered for the construction of the lift well. **04**
- OR**
- Q.3** (a) Explain the term “Duct”, enlist the types of ducts and discuss the application of the duct for different types of services. **04**
- (b) Write an explanatory note on the construction of swimming pools and sketch a couple of details for the same. **04**
- Q.4** Discuss the main parameters to be considered while constructing a new building in order to increase the earthquake resistance of the building. **08**
- OR**
- Q.4** Discuss the term “Retrofitting of Structure”, discuss the methods of elementary retrofitting in order to increase the earthquake resistance of the existing building **08**
- Q.5** Discuss the significance of joining detail in Structural Glazing. Briefly describe any four of the joining details with the help of a neat and labeled sketch. **08**
- OR**
- Q.5** Discuss the term “Structural Glazing”, enlist various materials used for structural glazing, Discuss Merits and Demerits of structural glazing. **08**
