

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- III EXAMINATION – SUMMER 2020****Subject Code: 3130607****Date: 28/10/2020****Subject Name: Building Construction Technology****Time: 02:30 PM TO 05:00 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) Give names of various methods of demolition of structures. **03**
 (b) Explain friction pile with neat sketch. **04**
 (c) Differentiate between stone masonry and brick masonry. **07**
- Q.2** (a) Explain combined footing with neat sketch. **03**
 (b) Discuss about pile cap and pile shoes. **04**
 (c) Enumerate various methods of soil exploration and discuss any one with neat sketches. **07**
- OR**
- (c) Write brief note on seismic refraction method and electrical resistivity method. **07**
- Q.3** (a) Explain English bond with its use. **03**
 (b) Which are the remedial measures to prevent caisson diseases? **04**
 (c) Differentiate between stone masonry and brick masonry. **07**
- OR**
- Q.3** (a) Define Intrados, Rise and Springer in connection with arch. **03**
 (b) Draw neat sketch of RCC lintel with chhaja. **04**
 (c) Enumerate various types of cement and discuss about sulphate resistance cement. **07**
- Q.4** (a) Draw form work for RCC footing with nomenclature. **03**
 (b) Define the terms: Nosing, Newel post, Winder, Soffit **04**
 (c) Write short notes on Glazed door and Flush door. **07**
- OR**
- Q.4** (a) Enlist various roofing material. **03**
 (b) Discuss clear storey window with neat sketch. **04**
 (c) Explain dog legged stair, Open well stair and bifurcated stair with its suitability. **07**
- Q.5** (a) What is cofferdam? What is its use? **03**
 (b) Write brief note on double scaffolding. **04**
 (c) Discuss various causes of fire and its precautionary measures. **07**
- OR**
- Q.5** (a) Explain rating system of green building used in India and Globally. **03**
 (b) Which factors are considered for deciding the method of demolition? **04**
 (c) Discuss and explain with proper figure single and double flying shore. **07**
