

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC- SEMESTER-II - EXAMINATION – SUMMER 2017

Subject Code: X20602

Date:01/06/2017

Subject Name: ADVANCED CONSTRUCTION

Time: 10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain in detail all types of cased Cast in situ and uncased cast in situ concrete pile **07**
(b) What is under-reamed pile explain with sketches? Explain Pre cast concrete pile – advantages and disadvantages **07**
- Q.2** (a) What is necessity of construction of cofferdam? Explain with sketches “ Rock filled coffer dam”. **07**
(b) Distinguish between cofferdam and Caisson. **07**
- Q.3** (a) Write Short note on “ Caisson disease”. **07**
(b) What is Demolition Explain different method of demolition **07**
- Q.4** (a) Explain characteristic of good form work **07**
(b) Write short note on “Slip Form work”. **07**
- Q.5** (a) Describe provision of vertical reinforcement in masonry walls to improve seismic resistance of buildings **07**
(b) How the ground water is controlled during construction? Explain electro osmosis with sketch **07**
- Q.6** (a) Discuss various basic criteria for selection of construction equipments. **07**
(b) Explain with sketches :Power shovel – an Excavating equipment **07**
- Q.7** (a) Describe main component of belt conveyors. **07**
(b) List various types of cranes and write short note on Derrick Crane. **07**
