| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-II EXAMINATION - WINTER 2015

Subject Code: X 20602 Date:28/12/2015

| Subject Name: | Construction |
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| Time: 02:30nm | to 05:00nm |

Total Marks: 70 Time: 02:30pm to 05:00pm

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1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

| Q.1 | (a) | What is a pile foundation? Enlist different type of pile foundation and explain Simples Pile. | 07 |
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| | (b) | Differentiate pre cast and cast in situ pile foundation. | 07 |
| Q.2 | (a) (b) | Write short note on "Under ream pile" Explain with sketches false work for Bridges. | 07 07 |
| Q.3 | (a) (b) | Explain in detail prevention of leakage in coffer dam. What is cofferdam? Write down uses of coffer dam. | 07 07 |
| Q.4 | (a) (b) | What is caisson? Describe the pneumatic caisson. Enlist the different method of dewatering and explain any one in detail. | 07 07 |
| Q.5 | (a) (b) | What is base isolation? Where we use base isolation? What is demolition? What are the precaution require to demolish any structure? | 07 07 |
| Q.6 | (a) (b) | Write short note on "Slip Foam work". What are the factors affecting for selection of equipment? | 07 07 |
| Q.7 | (a) (b) | Write short note on Excavating equipment with sketches. Enlist the different drilling equipments describe in detail hammer drills | 07 07 |
