

GUJARAT TECHNOLOGICAL UNIVERSITY**DIPLOMA IN ARCHITECTURE – SEMESTER – IV • EXAMINATION – SUMMER 2016****Subject Code: 3346202****Date: 02- 06- 2016****Subject Name: Advanced Construction Technology****Time:10:30 AM TO 12:30 PM****Total Marks: 50****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Supplement your answer with neat sketches wherever necessary.

- Q.1** Explain in Brief any three **9**
1. Dome
 2. Vault
 3. Spaceframe
 4. Suspension Cable
- Q.2** (a) Write a short note on Two Segment Folded Plates. **06**
- OR
- (a) Write a short note on Three Segment Folded Plates. **06**
- (b) Write a short note on Canopies. **05**
- OR
- (b) Write a short note on Edge supported folded plates. **05**
- Q.3** Explain “Vault”, Enlist types of vaults and briefly describe Barrel Vaults **10**
- OR
- Explain “Dome”, Enlist types of domes and briefly describe Onion shaped Dome **10**
- Q.4** (a) Write a short note on PVC as a construction material. **05**
- OR
- (a) Write a short note on FRP as a construction material. **05**
- (b) Write a short note on Aluminum sliding windows. **05**
- Q.5** Explain the term “Pneumatic Structures” and write an elaborative note on the same. **10**
