

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**D.ARCH. - SEMESTER- IV • EXAMINATION – WINTER 2016**

**Subject Code:3346202****Date: 17/11/2016****Subject Name: Advanced Building Construction****Time:02:30 PM TO 04:30 PM****Total Marks: 50****Instructions:**

1. Attempt any five questions.
2. Draw sketches wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** State any two examples where the following building material may be used. **10**  
( Any Five)  
1) PVC, 2) FRP, 3) GLASS, 4) ALUMINIUM, 5)PLASTIC ,  
6)PRECAST CONCRETE, 7) PRESTRESSED CONCRETE.
- Q.2** (a) Explain the importance of PVC as a building material in Advanced **05**  
Construction Technology.  
(b) State any three advantages of Pre-stressed concrete in Advanced construction **05**  
technology.
- Q.3** (a) Explain briefly Geodesic Domes. **05**  
(b) Write a short note on Vault as a roofing system. **05**
- Q.4** (a) What do you mean by Pneumatic Structures? Explain its importance, use and **05**  
method of construction.  
(b) Write a short note on waffle slab. **05**
- Q.5** (a) Explain in detail Frameless Doors. **05**  
(b) Explain the importance of cladding and the of Aluminium Composite panel in **05**  
Cladding.
- Q.6** Write a detailed note on Folded plates. **10**
- Q.7** Explain briefly the importance and use of glass in Advanced Construction **10**  
Technology..
- Q.8** Write a short note on Space Frames. **10**

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