

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING – SEMESTER – I-EXAMINATION – WINTER 2015

Subject Code: 3316202

Date: 19/12/2015

Subject Name: Technical Drawing - I

Time: 10:30 AM TO 01:30 PM

Total Marks :40

**Instructions:**

1. Attempt any 5 questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Divide a line of 110 mm into 8 equal parts. (06)  
(b) Taking a cube of 40mm x 40mm x 40mm, show two different rendering techniques in them. (04)
- Q.2 (a) Two lines of 60 mm is making an angle of 55 degrees. Bisect the angle. (06)  
(b) Sketch Architectural symbols for tree, single shutter door, shrub, w/c pan. (04)
- Q.3 (a) Draw a regular pentagon of sides 40 mm each. (05)  
(b) Draw a pyramid with a square base of 50 mm sides and 80 mm height. (05)
- Q.4 (A) Draw an orthographic projections of a point: (05)  
(i) A point 60 mm above HP and 45 mm in front of VP.  
(ii) A point 30 mm above HP and 80 mm in front of VP.  
(B) Draw an orthographic projection of a line 45 mm above HP and 45 mm in front of VP (2.5)  
(C) Draw an orthographic projection of a square plane 35 mm above HP and 40 mm in front of VP. (2.5)
- Q.5 (a) Draw an Isometric view of a cylinder with a 50 mm diameter and 80 mm height. (04)  
(b) Draw a Segmental arch with a span of 4000 mm. (06)
- Q.6 (a) Draw an Axonometric view of a square base pyramid with all sides as 40 mm and Height as 60 mm. (04)  
(b) Draw a semi circular arch with a span of 3000 mm. (06)